

N-21013/9/2024-NeGD
National e-Governance Division
Digital India Corporation
Electronics Niketan, 6, CGO Complex Lodhi Road,
New Delhi – 110003
Website: www.negd.gov.in / www.dic.gov.in

Web Advertisement
15.01.2026

The National e-Governance Division (NeGD) is an independent business division under the Digital India Corporation, Ministry of Electronics and Information Technology. NeGD has been playing a pivotal role in supporting MeitY in Programme Management and implementation of e-Governance projects and initiatives undertaken by various Ministries/ Departments, both at the Central and State levels.

NeGD has been spearheading several innovative initiatives under the aegis of the Digital India Programme. Those have been developed keeping the vision areas of Digital India at the core- providing digital infrastructure as a core utility to every citizen, governance and services on demand and in particular, digital empowerment of the citizens of our country; some of these initiatives include DigiLocker, UMANG, Poshan Tracker, OpenForge Platform, API Setu, National Academic Depository, Academic Bank of Credits, Learning Management System.

It has myriad roles and responsibilities from supporting Central Line Ministries and State Government Departments on e-Governance projects, reviewing State Action Plans, offering support in technology management, strategy formulation & implementation of Emerging Technologies viz. AI, Blockchain, GIS etc., to facilitating digital diplomacy with focus on Indian startups and products

NeGD has been a leader in implementation and execution of a gamut of pilot/ infrastructure/ technical/ special projects and support components to framing core policies, project appraisals, R&D, and guiding /conducting assessments, undertaking activities for building capacities of both Government officials and] other stakeholders, and creating mass awareness about schemes and services under the Digital India Programme.

NeGD is currently inviting applications for the following positions purely on Contract basis initially for a period of 1 year which is further extendable as per the requirement of the project

S. No	Position	Vacancy	Budget
1	Technical Lead (AI)	01	Maximum 39 LPA
2	Business Analyst	01	Maximum 19.20 LPA
3	Full Stack Developer (AI)	03	Maximum 34.80 LPA
4	AI/ML Engineer	01	Maximum 34.80 LPA
5	Data Scientist (AI)	01	Maximum 30 LPA
6	DevOps Engineer	01	Maximum 24 LPA
7	Tester (AI)	01	Maximum 21.60 LPA

* The maximum age limit shall be 55 years on the closing date of receipt of application.

** The place of posting shall be in New Delhi but transferable to project locations of NeGD as per existing policy of NeGD/DIC.

Screening of applications will be based on qualifications, age, and relevant experience. NeGD reserves the right to fix higher threshold of qualifications and experience for screening and limiting the number of candidates for interview. Only shortlisted candidates shall be invited for interviews. NeGD reserves the right to not to select any of the candidates without assigning any reason thereof.

The details can be downloaded from the official website of **DIC** and **NeGD**, viz. www.dic.gov.in, www.negd.gov.in.

Eligible candidates may apply ONLINE: <https://ora.digitalindiacorporation.in/>

Last date for submission of applications will be: 26.01.2026

1. Business Analyst - AI/ML Domain

About the Role:

The Business Analyst will be responsible for understanding the digital transformation and AI enablement needs of Central Government Ministries and translating them into functional and technical specifications. This role involves detailed stakeholder engagement, business process analysis, documentation, gap assessments, and coordination between technical, data science, and policy teams to ensure successful implementation of citizen-centric digital and AI-powered services.

Experience

- 4-8 years

Key Responsibilities:

- Conduct comprehensive requirement gathering and analysis for AI-based conversational systems and intelligent platforms serving government stakeholders
- Translate complex functional requirements from diverse stakeholders into detailed technical specifications for AI/ML development teams
- Design and document data flow diagrams, system architecture components, and end-to-end workflows for advanced AI/ML applications
- Coordinate with client departments for dataset validation, content standardization, and output format specifications
- Facilitate User Acceptance Testing (UAT) planning, execution, and validation with domain experts and project stakeholders
- Create comprehensive documentation, including Business Requirement Documents (BRDs), Functional Requirement Documents (FRDs), Detailed Project Report (DPR) process flows, and Standard Operating Procedures (SOPs)
- Manage stakeholder communication across multiple organizational units, including implementation teams, client departments, and empanelled vendors
- Monitor project deliverables against timelines, identify risks, and recommend mitigation strategies for successful implementation
- Analyze user feedback and system performance metrics to recommend continuous improvements and feature enhancements
- Ensure compliance with government IT security standards, data protection policies, and organizational guidelines
- Liaise between tech and regulatory teams. Responsible for analyzing the business needs and translating them into functional requirements. The Business Analyst will work on market analysis, document business processes, and ensure that technical specifications align with strategic goals.

Job Description (JD)

- This role requires detailed documentation, workflow analysis, and effective collaboration with cross-functional teams to transform requirements mainly related to environmental systems into actionable insights and technical specifications.
- The Business Analyst will develop user stories, maintain a prioritized backlog, and provide ongoing feedback on project progress and performance.
- Ideal candidates should possess strong analytical skills, an understanding of environmental systems, clearances, and experience in an Agile environment.
- Strong communication and stakeholder management skills are essential.
- Familiarity with AI/ML concepts: Natural Language Processing, embeddings, vector databases, semantic search, and multimodal data processing

- Understanding of RAG and Agentic architecture components: knowledge bases, retrieval engines, LLM integration, and response generation
- Knowledge of conversational AI platforms, intelligent assistant design patterns, and user experience principles
- Proficiency in creating UML diagrams, data flow diagrams, wireframes, and system architecture documentation
- Experience with business analysis tools: Visio, Lucidchart, Miro, Figma, MS Office Suite
- Basic understanding of programming languages (Python preferred), APIs, cloud infrastructure, and microservices architecture
- Familiarity with cloud deployment environments and government IT infrastructure requirements
- Understanding of DevOps principles, CI/CD pipelines, and containerization technologies
- Understanding of multilingual content processing and bilingual interface requirements
- Knowledge of government IT policies, security frameworks, and compliance requirements

Educational Qualification

- Any Graduate (preferably B.E / B.Tech / MCA or equivalent degree in IT/CS) with good academic record from a recognized and reputed university/institution

Desirable Skills and Certificates

- Certified Business Analysis Professional (CBAP), PMI-PBA, Agile/Scrum (CSM, CSPO)
- Strong understanding of environmental systems and relevant clearances.
- Understanding of AI/ML concepts like NLP, DevOps principles, CI/CD pipelines, and containerization technologies
- Certifications in Business Analysis (CBAP, CCBA), Agile (CSM), Digital Transformation, or AI Foundations (e.g., AI for Everyone, Responsible AI)

2. Full Stack Developer (AI)

About the Role:

Responsible for end-to-end development of the chatbot platform, including front-end UI, backend APIs, integration of RAG pipeline, and compliance with cloud deployment requirements.

Experience

- 4-8 years

Key Responsibilities:

- Design, develop, and maintain scalable web applications using modern JavaScript frameworks (React.js/Next.js) with intuitive, responsive, and accessible user interfaces.
- Build and integrate backend services, RESTful APIs, and microservices to support secure data exchange and AI/ML workflows.
- Integrate AI/ML models, including RAG-based and agentic chatbots, with capabilities such as self-correction, tool-calling, confidence scoring, and quality assurance.
- Implement NLP-based solutions for project classification and key risk summarization.
- Develop and manage data pipelines for document ingestion, storage, and retrieval (PDFs, forms, geospatial/KML data).
- Enable multimodal input processing (text & image) with contextual conversation management.
- Optimize AI pipelines for retrieval accuracy, context handling, and low-latency responses.
- Ensure security, compliance, and accessibility, including authentication, authorization, encryption, multilingual support, and adherence to government IT standards.
- Support deployment, monitoring, and troubleshooting across cloud and on-premise environments using containerization and CI/CD pipelines.
- Collaborate with product, UI/UX, data science, ML, QA, and domain teams to deliver high-quality, scalable solutions.
- Conduct code reviews, testing (unit, integration, E2E), maintain technical documentation, and ensure long-term system reliability.
- Experience in environment clearance project, geospatial data handling, document processing, and AI-enabled web applications.
- Familiarity with cloud platforms (AWS/Azure/GCP), containerization (Docker), and CI/CD pipelines

Job Description (JD)

The Full Stack Developer will be responsible for the complete development lifecycle of AI/ML Solution, building both the front-end and back-end components to deliver high-quality, scalable solutions. This role involves working with cross-functional teams to understand business needs, implementing security measures, and ensuring regulatory compliance within the development process. The Full Stack Developer will create and maintain APIs, optimize application performance, and document technical workflows for seamless project handoffs and future maintenance. Ideal candidates should be proficient in both front-end and back-end technologies, possess a strong understanding of data security and compliance requirements, and have experience in Agile development environments.

Expertise in the following skills is mandatory:

- Experience in full stack development, with at least 3 years in Generative AI, LLMs, or conversational AI systems.
- Strong proficiency in Python backend development (FastAPI, Flask, Django) and/or Node.js, including async frameworks, microservices architecture, and RESTful API design.
- Extensive experience with modern JavaScript/TypeScript, React framework, server-side rendering, state management, and modern frontend tooling.

- Hands-on experience in building and integrating RAG systems, including vector databases, embeddings, LLM APIs, and semantic search.
- Proven experience in developing and deploying production-grade AI-powered applications.
- Strong understanding of Large Language Models, prompt engineering, context handling, API optimization, and response control.
- Experience with cloud platforms (AWS/Azure/GCP), including compute, storage, serverless services, containerization (Docker), and CI/CD pipelines.
- Experience with databases such as PostgreSQL and MongoDB, handling structured and unstructured data.
- Proficiency in Git, Agile development practices, and collaborative coding workflows.
- Strong knowledge of authentication, authorization, secure coding practices, and data protection.
- Exposure to government/public sector projects, document processing, geospatial data, and accessibility standards (WCAG) is desirable.
- Strong analytical, problem-solving, communication, and documentation skills.
- Bachelor's degree in computer science, Engineering, or a related discipline.

Educational Qualification

- Any Graduate (preferably B.E / B. Tech / MCA or equivalent degree in IT/CS) with good academic record from a recognized and reputed university/institution

Desirable Skills and Certificates

- Strong understanding of environmental systems and relevant clearances.
- Technical Skills: JavaScript Frameworks (e.g., React, Angular), Python, Rest API's, Next.js, Node.js, TypeScript, modern UI frameworks, responsive design, and AI-enhanced UI development using Vercel AI SDK or similar technologies.
- DB: Mongo DB, Vector DB, Postgre SQL, relational databases, caching solutions (Redis)
- Cloud Services: Major cloud providers - compute, storage, AI/ML services, serverless functions
- Containerization: Docker, Docker Compose, Kubernetes, container orchestration
- Security: OWASP best practices, input sanitization, XSS prevention, CSRF protection, secure coding

3. Technical Lead (AI)

About the Role:

We are seeking a Technical Lead to architect, oversee, and deliver AI/ML solutions for a large-scale government platform focused on environmental clearances and compliance. The role requires hands-on technical leadership, end-to-end solution design, and team management across all AI/ML workstreams.

Experience

- 5-10 years

Key Responsibilities:

- Lead the design, development, and deployment of AI/ML solutions, including RAG-based chatbots, agentic AI modules, and data pipelines.
- Architect scalable, secure, cloud-based systems using modern ML frameworks, APIs, and platforms (AWS/Azure/GCP).
- Implement and integrate NLP, document intelligence, geospatial analysis, and RAG pipelines, including LLMs and vector databases.
- Build data ingestion, embedding, retrieval, and NLP-based classification and risk summarization workflows.
- Establish MLOps practices covering CI/CD, monitoring, model versioning, and automated testing.
- Collaborate with cross-functional teams, review code, mentor engineers, and manage technical delivery risks.
- Ensure compliance with government IT standards, data privacy, security, and ethical AI guidelines.
- Prepare technical documentation and represent the technical team in stakeholder and government meetings.
- Follow Agile practices to track progress and ensure timely delivery.
- Experience in environmental, regulatory, or e-governance AI systems.
- Knowledge of GIS, remote sensing, and KML/geospatial data formats.
- Exposure to agentic AI and decision-support systems.

Job Description (JD)

- Experience in software engineering, with 4+ years in AI/ML solution delivery
- Proven experience leading teams in building and deploying production-grade ML/NLP systems
- Strong proficiency in Python, cloud platforms (AWS/Azure/GCP), and ML frameworks (PyTorch, TensorFlow, Hugging Face), databases (SQL, NoSQL, vector databases).
- Experience with RAG architectures, vector databases (OpenSearch, Pinecone, FAISS), and LLM integration
- Hands-on knowledge of API design (REST), microservices, and containerization (Docker/Kubernetes)
- Familiarity with geospatial data processing and document/OCR pipelines
- Excellent problem-solving, communication, and documentation skills
- Bachelor's or master's degree in computer science, Engineering, or related field
- Experience with government, public sector, or regulatory technology projects
- Knowledge of environmental regulations and compliance processes
- Exposure to Agile/Scrum project management
- Strong proficiency in Python for AI/ML and backend development.

Educational Qualification

- Any Graduate (preferably B.E / B.Tech / MCA or equivalent degree in IT/CS) with good academic record from a recognized and reputed university/institution

Desirable Skills and Certificates

- Cloud Architect, DevOps, Agile Certification
- Experience in environmental, regulatory, or e-governance AI systems.
- Knowledge of GIS, remote sensing, and KML/geospatial data formats.
- Exposure to agentic AI and decision-support systems.

4. AI/ML Engineer

About the Role:

Responsible for end-to-end development and integration of the AI/ML chatbot platform, including front-end UI, backend APIs, integration of RAG pipeline, and compliance with cloud deployment requirements.

Experience

- 4-8 years

Key Responsibilities:

- Design, develop, and maintain end-to-end AI/ML-enabled web applications, including responsive frontend interfaces, dashboards, and chatbot integrations using modern JavaScript frameworks.
- Build, integrate, and optimize backend services, RESTful APIs, and microservices to support secure data exchange and AI/ML workflows.
- Integrate AI/ML models, including RAG-based and agentic chatbots, with capabilities such as self-correction, tool-calling, confidence scoring, and quality assurance.
- Enable multimodal input processing (text, image, and audio) with contextual conversation management.
- Design and manage data pipelines for document ingestion, storage, and retrieval, including PDFs, forms, and geospatial data.
- Optimize AI pipelines for retrieval accuracy, context handling, chunking strategies, and low-latency responses.
- Manage deployment, monitoring, and troubleshooting across cloud and on-premises environments using containerization and automated CI/CD pipelines.
- Implement security, compliance, and governance controls, including authentication, authorization, encryption, API protection, and adherence to government IT standards, data privacy, WCAG accessibility, and multilingual requirements.
- Collaborate with cross-functional teams and ensure performance, scalability, quality, and maintainability through code reviews, testing, documentation, and continuous improvement.

Job Description (JD)

The AI/ML Engineer will be responsible for the end-to-end development lifecycle of AI/ML solutions, encompassing both frontend and backend components to deliver secure, scalable, and high-performance applications. The role requires close collaboration with cross-functional teams to understand business requirements, implement robust AI-driven functionalities, and ensure compliance with security, data privacy, and regulatory standards.

The incumbent will design and maintain APIs, integrate AI/ML and Generative AI models, optimize application performance, and prepare technical documentation to support seamless project handover and long-term system maintenance. The role demands strong proficiency in full stack development, AI/ML integration, and Agile development practices.

Mandatory Skills & Experience

- Proven experience in AI/ML solution integration and full stack development, with at least 3 years of hands-on experience in Generative AI, Large Language Models (LLMs), or conversational AI systems.
- Strong proficiency in Python backend development using frameworks such as FastAPI, Flask, or Django, and/or Node.js, including modern asynchronous frameworks, microservices architecture, and RESTful API design.
- Extensive experience with modern JavaScript/TypeScript, including React, server-side rendering, state management patterns, and modern frontend tooling.
- Hands-on experience in building and consuming RESTful APIs and integrating third-party services.
- Demonstrated expertise in developing Retrieval-Augmented Generation (RAG) systems, including vector databases, embeddings, LLM API integration, and semantic search.

- Proven track record of developing, deploying, and maintaining production-grade AI-powered applications.
- Deep understanding of Large Language Models, including prompt engineering, context management, API optimization, and response control mechanisms.
- Experience working with cloud platforms (AWS, Azure, or GCP), including compute, storage, serverless services, containerization, and managed services.
- Strong knowledge of modern web architectures, RESTful API design principles, and real-time communication protocols.
- Proficiency in version control systems (Git), Agile development methodologies, and collaborative development workflows.
- Hands-on experience with containerization (Docker) and CI/CD pipelines.
- Experience with database systems such as PostgreSQL and MongoDB, handling both structured and unstructured data.
- Solid understanding of secure coding practices, including authentication, authorization, and data protection.
- Strong analytical, problem-solving, communication, and technical documentation skills.
- Bachelor's degree in computer science, Engineering, or a related discipline.

Educational Qualification

- Any Graduate (preferably B. E / B. Tech / MCA or equivalent degree in IT/CS) with good academic record from a recognized and reputed university/institution

Desirable Skills and Certificates

- Technical Skills: JavaScript Frameworks (e.g., React, Angular), Python, REST API's, Next.js, Node.js, TypeScript, modern UI frameworks, responsive design, and AI-enhanced UI development using Vercel AI SDK or similar technologies.
- DB: Mongo DB, Vector DB, Postgre SQL, relational databases, caching solutions (Redis)
- Cloud Services: Major cloud providers - compute, storage, AI/ML services, serverless functions
- Containerization: Docker, Docker Compose, Kubernetes, container orchestration
- Security: OWASP best practices, input sanitization, XSS prevention, CSRF protection, secure coding
- Experience in environmental, regulatory, or e-governance AI systems.
- Knowledge of GIS, remote sensing, and KML/geospatial data formats.
- Exposure to agentic AI and decision-support systems.

5. Data Scientist

About the Role:

We are seeking a Data Scientist to design, develop, and deploy AI/ML solutions for a large-scale government platform focused on environmental clearances and compliance. The role involves working with diverse datasets, data ingestion, PDF extraction, Image handling, OCR, audio transcription, metadata tagging, chunking, embedding generation, vector DB indexing, and data quality assurance, building advanced models, and collaborating with cross-functional teams to automate and enhance decision-making processes.

Experience

- 4-8 years

Key Responsibilities:

- Data Analysis & Modeling: Analyze, clean, and structure large volumes of environmental, geospatial, multimodal and regulatory datasets to extract insights, identify trends, and build predictive models that support decision-making. Develop and implement machine learning models for project classification, deficiency detection, document summarization, and geospatial analysis.
- Machine Learning Implementation: Develop and deploy machine learning algorithms to enhance operational efficiency, automate processes, and provide analytical solutions for regulatory compliance. Build and optimize RAG (Retrieval Augmented Generation) pipelines for chatbot and agentic AI use cases
- Data Visualization: Create interactive visualizations and dashboards to communicate findings and insights effectively to stakeholders, ensuring data-driven strategies are clear and actionable. Design data ingestion, chunking, embedding, and retrieval workflows for unstructured and structured documents
- Cross-Functional Collaboration: Work closely with business analysts, data engineers, domain experts and product managers to understand business needs and integrate data-driven solutions and data pipelines with AI systems to ensure seamless data flow.
- Research & Innovation: Stay up-to-date with the latest industry trends, technologies, and best practices in data science and analytics, applying innovative approaches to problem-solving in the geospatial domain.
- Documentation & Reporting: Document methodologies, processes, and models, and present findings to management and stakeholders, ensuring clarity and reproducibility of analyses. Prepare documentation, data dictionaries, and model cards for all deliverables.
- Support integration of AI/ML models into production systems and APIs. Develop intelligent document chunking strategies and semantic segmentation algorithms optimized for information retrieval accuracy.
- Ensure data privacy, security, and compliance with government IT standards. Document data schemas, transformation logic, pipeline configurations, and maintain comprehensive data lineage for governance and audit

Job Description (JD)

The Data Scientist will be responsible for leveraging data to drive insights and support decision-making for applications. This role involves analyzing complex datasets, developing predictive models, and implementing machine learning solutions to address business challenges and regulatory requirements. The Data Scientist will collaborate with cross-functional teams to ensure data-driven strategies are effectively integrated into the solution. Ideal candidates should have a strong background in statistical analysis, machine learning, and data visualization tools, along with excellent problem-solving skills and the ability to communicate complex findings to non-technical stakeholders. Experience in financial technology or regulatory environments is a plus.

Must Have:

- 4+ years of experience in data science, machine learning, or applied AI with focus on NLP/text analytics projects
- Strong proficiency in Python and ML libraries (scikit-learn, PyTorch/TensorFlow, Hugging Face Transformers)

- Experience with NLP, document processing, and LLM-based applications, cloud platforms (AWS, Azure, GCP) and MLOps practices
- Familiarity with RAG architectures, vector databases (OpenSearch, Pinecone, FAISS), and embedding models
- Proven experience with vector databases and embedding generation for semantic search applications
- Deep understanding of NLP techniques: tokenization, text preprocessing, semantic analysis, and document parsing
- Experience with geospatial data analysis (GeoPandas, Shapely, GIS tools) is a plus
- Ability to work with large, messy, and heterogeneous datasets (PDFs, text, tabular, spatial)
- Strong problem-solving, communication, and documentation skills
- Experience with version control (Git), CI/CD for data pipelines, and workflow orchestration tools
- Bachelor's or master's degree in computer science, Data Science, Engineering, or related field

Educational Qualification

- Any Graduate (preferably B.E / B. Tech / MCA or equivalent degree in IT/CS) with good academic record from a recognized and reputed university/institution

Desirable Skills and Certificates

- Certified Data Scientist (CDS)
- Experience in environmental, regulatory, or e-governance AI systems.
- Knowledge of GIS, remote sensing, and KML/geospatial data formats.
- Exposure to agentic AI and decision-support systems.

6. DevOps Engineers

About the Role:

Responsible for cloud deployment, containerization, CI/CD, infrastructure security, uptime and monitoring.

Experience

- 4-8 years

Key Responsibilities:

- CI/CD Pipeline Development: Design, implement, and manage continuous integration and continuous deployment (CI/CD) pipelines to streamline software development processes and ensure rapid and reliable releases.
- Infrastructure Automation: Utilize Infrastructure as Code (IaC) tools to automate the provisioning and management of cloud infrastructure, ensuring scalability, reliability, and cost-efficiency.
- Monitoring & Performance Optimization: Set up monitoring tools and dashboards to track system performance, application health, and infrastructure metrics, proactively addressing issues to ensure high availability.
- Collaboration & Communication: Foster collaboration between development, operations, and quality assurance teams, ensuring clear communication and alignment on project goals and timelines.
- Security & Compliance Implementation: Integrate security practices into the DevOps lifecycle (DevSecOps), ensuring that security and compliance requirements are met at every stage of development and deployment.
- Documentation & Training: Maintain detailed documentation of deployment processes, system configurations, and best practices, and provide training to team members on DevOps tools and methodologies.
- Design, implement, and manage cloud infrastructure on government-approved cloud service providers
- Configure and manage databases including vector databases, NoSQL databases, relational databases, and caching layers
- Configure and manage API gateways, load balancers, and SSL/TLS certificate management
- Optimize cloud costs through resource rightsizing, reserved capacity planning, and efficient architecture design
- Perform system performance tuning, capacity planning, and infrastructure optimization initiatives
- Establish backup and recovery procedures, maintain disaster recovery runbooks and business continuity plans
- Ensure compliance with organizational security guidelines, industry standards, and regulatory requirements

Job Description (JD)

- DevOps/Cloud Engineering experience with production deployment and operational management
- Bachelor's degree in computer science, Information Technology, or related technical field
- The DevOps Engineer will be responsible for implementing and managing DevOps practices and tools to enhance the development lifecycle of AI/ML solution. This role focuses on automating processes, optimizing infrastructure, and ensuring seamless collaboration across teams to deliver secure, high-quality software efficiently.
- The DevOps Engineer will develop CI/CD pipelines, automate infrastructure provisioning, and monitor system performance while embedding security measures throughout the development lifecycle. Ideal candidates should have experience with cloud platforms, CI/CD tools, and deep understanding of IaC principles and automation tools, alongside strong problem-solving skills and a commitment to fostering a collaborative work environment.

- Strong expertise in major cloud platforms: AWS, Azure, or GCP - compute, storage, networking, managed services
- Hands-on experience with containerization: Docker, Kubernetes, container orchestration at scale
- Strong Linux system administration skills: shell scripting, system monitoring, performance tuning
- Experience with microservices architecture deployment, service mesh, and distributed systems
- Knowledge of networking fundamentals: VPC, subnets, security groups, firewalls, DNS, load balancers
- Understanding of security best practices: IAM, RBAC, encryption, compliance frameworks

Educational Qualification

- Any Graduate (preferably B. E / B. Tech / MCA or equivalent degree in IT/CS) with good academic record from a recognized and reputed university/institution

Desirable Skills and Certificates

- Certified Kubernetes Administrator, AWS Solutions Architect, Azure Solutions Architect, GCP Professional Cloud Architect
- Experience in environmental, regulatory, or e-governance AI systems.
- Knowledge of GIS, remote sensing, and KML/geospatial data formats.
- Exposure to agentic AI and decision-support systems.

7. QA/Tester

About the Role:

The QA-AI Tester will be responsible for validating the quality, accuracy, and reliability of AI-driven applications. The role involves designing and executing test plans, evaluating system outputs, identifying defects, and ensuring that the AI models and application functionalities meet defined standards. The tester will work closely with development and product teams to verify performance, usability, and consistency across various scenarios, ensuring a robust and dependable end-user experience.

Experience

- 3-8 years

Key Responsibilities:

- Test Planning & Design: Collaborate with business analysts and development teams to understand requirements, and design comprehensive test plans and test cases that cover functional, non-functional, and performance testing for AI-powered systems.
- Test Execution: Execute test cases, report defects, and verify fixes in various environments (e.g., development, QA, staging) to ensure software quality before production release. Maintain defect tracking using industry-standard tools, document test results, and generate quality metrics reports.
- Automation & Scripting: Develop and maintain automated test scripts using testing frameworks and tools to enhance testing efficiency and coverage.
- Documentation: Maintain detailed documentation of test cases, test results, and defect reports, ensuring traceability and clarity for stakeholders.
- Collaboration: Work closely with cross-functional teams, including developers and product managers, to communicate testing results, discuss issues, and ensure alignment on quality standards.
- Continuous Improvement: Participate in retrospectives and contribute to process improvements within the testing lifecycle, promoting a culture of quality within the organization.
- Conduct hallucination testing to ensure AI system responses are factually accurate and free from fabricated information
- Test multimodal input processing: text queries, image handling, audio processing, and cross-modal consistency validation
- Validate output format compliance, communication standards adherence, and terminology usage accuracy
- Perform semantic search accuracy testing: query-to-document matching, embedding quality, similarity threshold optimization
- Execute load testing, stress testing, and performance benchmarking to ensure systems meet stringent latency and throughput requirements
- Validate compliance with organizational security standards, data protection policies, and regulatory requirements. Conduct comprehensive security testing, authentication/authorization, input validation, API security, data encryption verification
- Collaborate with development teams for bug reproduction, root cause analysis, and comprehensive fix verification

Job Description (JD)

- QA/Testing experience with at least 2 years in AI/ML, chatbot, or NLP system testing
- Bachelor's degree in computer science, Information Technology, or related technical field
- Strong understanding of AI/ML testing methodologies: model evaluation, data quality testing, bias detection
- Hands-on experience testing conversational AI systems, RAG pipelines, or LLM-based applications
- Expertise in functional, integration, system, and regression testing for complex software systems

- The Tester will be responsible for ensuring the quality and reliability of applications through comprehensive testing processes.
- This role involves designing test plans, executing test cases, and documenting results while collaborating with development and product teams to address issues and ensure compliance with quality standards. Proficiency in test case design, test planning, defect life cycle management, and quality assurance processes
- Ideal candidates should have a solid understanding of software testing methodologies, experience with test automation tools, test automation frameworks and strong analytical skills.
- Excellent attention to detail and communication skills are essential for effectively conveying testing outcomes and collaborating with stakeholders.
- Strong analytical and problem-solving skills for identifying edge cases, boundary conditions, and quality issues
- Excellent documentation skills for creating test plans, test reports, traceability matrices, and quality dashboards
- Experience coordinating UAT with stakeholders and managing iterative feedback loops
- Familiarity with multimodal AI testing: image classification validation, OCR accuracy, audio transcription quality

Educational Qualification

- Any Graduate (preferably B. E / B. Tech / MCA or equivalent degree in IT/CS) with good academic record from a recognized and reputed university/institution

Desirable Skills and Certificates

- AI-Specific Testing: Prompt testing, response quality evaluation, hallucination detection, factual accuracy validation
- Test Automation: Selenium, Playwright, Cypress for web UI automation, pytest for backend testing, Cucumber
- API Testing: Postman, REST Assured, pytest-requests, GraphQL testing tools
- Performance Testing: JMeter, Locust, Gatling, K6 for load testing, stress testing, and scalability testing
- Python Programming: Test automation scripts, data validation, metric analysis, custom testing tools
- Database Testing: SQL queries, data validation, NoSQL database query validation, data integrity checks
- LLM Evaluation Metrics: BLEU, ROUGE scores, semantic similarity metrics, retrieval metrics (MRR, nDCG, precision@k)
- Vector Database Testing: Query validation, similarity search accuracy, indexing verification, performance testing
- Test Management Tools: JIRA, TestRail, Zephyr, Azure DevOps Test Plans, test case management
- CI/CD Integration: Jenkins, GitHub Actions, GitLab CI for automated test execution and reporting
- Monitoring & Analytics Tools: Grafana, Kibana for test metrics visualization and trend analysis
- Browser DevTools: Chrome DevTools, Network analysis, Console debugging, performance profiling
- Mock Services & Stubs: WireMock, Mockito for service simulation and isolated component testing

General Conditions applicable to all applicants covered under this advertisement

1. Those candidates, who are already in regular or contractual employment under Central / State Government, Public Sector Undertakings or Autonomous Bodies, are expected to apply through proper channel or attach a ‘No Objection Certificate’ from the employer concerned with the application OR produce No Objection Certificate at the time of interview.
2. NeGD reserves the right to fill all or some or none of the positions advertised without assigning any reason as it deems fit.
3. The positions are purely temporary in nature for the project of NeGD/DIC and the appointees shall not derive any right or claim for permanent appointment at NeGD/DIC or on any vacancies existing or that shall be advertised for recruitment by NeGD in future.
4. NeGD reserves the right to terminate the appointments of all positions with a notice of one month or without any notice by paying one month’s salary in lieu of the notice period.
5. The designation of the selected candidates shall be mapped as per the existing designation policy of NeGD.
6. In case of a query, the following officer may be contacted:

HR Team

National e Governance Division, 4th Floor, Electronics Niketan,6-CGO, Complex Lodhi
Road, New Delhi – 110003
Tel: 24301932
Email: Negdhr@digitalindia.gov.in