

National Centre for Good Governance (NCGG)
Department of Administrative Reforms and Public Grievances
Ministry of Personnel, Public Grievances and Pensions
Government of India

Date: 12-11-2025

Subject: - Profile of Young Professional – Research (Data science & AI Analytics)

Name of Position	Young Professional - Research (Data science & AI Analytics) (for Delhi Office of NCGG)
No. of Posts	01
Duration of Engagement	1 Year contract (Extendable subject to performance review and approval), maximum period of three years.
Age Limit:	Candidates should be below 32 years of age as on the date of advertisement
Education Qualification:	Essential: BE/B.Tech with demonstrated expertise through: Professional certifications (AI/ML, Data Science, or related emerging technologies), Production-scale AI/ML project experience, Research internships at reputed institutions.
Required Technical Skills:	1. Programming & Development ○ Proficiency in Python, SQL, and API development (RESTful APIs, FastAPI, Flask) ○ Version control (Git) and collaborative development practices. 2. AI/ML & Advanced Analytics ○ Machine Learning algorithms and model deployment in production environments ○ Natural Language Processing (NLP), Large Language Models (LLMs) and Small Language Models (SLMs)

	◦ Experience with Generative AI applications, prompt engineering and building AI Agents. ◦ Familiarity with RAG (Retrieval-Augmented Generation) architectures and vector databases 3. Big Data & Cloud Technologies ◦ Cloud platforms (AWS services: S3, Lambda, EC2, GPU instances, or equivalent) ◦ Large-scale data processing and real-time streaming analytics ◦ Database management (SQL, PostgreSQL) and data pipeline orchestration 4. MLOps & Production Deployment ◦ Experience deploying AI/ML models in production environments ◦ Familiarity with deployment tools (containerization and cloud infrastructure) ◦ Model monitoring, versioning, and performance optimization ◦ Production-scale system architecture and scalability considerations
Duties & Responsibilities:	1. Policy Research and AI-Driven Analytics • Conduct quantitative research leveraging AI/ML techniques to evaluate economic and social impact of government policies, schemes, and procurement systems • Design and deploy predictive models for forecasting trends in public procurement, logistics efficiency, commodity pricing, and resource allocation • Build automated analytics pipelines to process large-scale government datasets and generate actionable insights • Apply anomaly detection algorithms to identify irregularities in transaction data, procurement patterns, and financial flows to enhance governance transparency

	2. Intelligent System Development for Governance • Develop and deploy AI-powered conversational agents (chatbots, voice assistants with Hindi/English multilingual support) and RAG-based knowledge systems for citizen service delivery, policy document retrieval, and administrative data analysis • Engineer intelligent automation systems for document processing, query resolution, and information dissemination using NLP and LLM technologies • Build real-time communication systems integrating telephony and messaging platforms for government-public engagement 3. Data Engineering & Big Data Analytics • Develop scalable data processing pipelines using big data technologies for real-time and batch analytics, processing large-scale datasets from diverse government sources with focus on accuracy and usability • Perform statistical analyses to identify trends, patterns, and correlations within administrative and economic data while maintaining production-grade infrastructure for continuous monitoring 4. Production Deployment & System Optimization • Deploy AI/ML models in production environments on cloud infrastructure (AWS or equivalent) with focus on reliability, scalability, and high-volume real-time processing performance • Implement MLOps best practices including model versioning, monitoring, automated retraining, and system optimization for continuous operations 5. Research Communication & Stakeholder Engagement • Translate complex technical findings into clear, actionable policy recommendations for non-technical stakeholders
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	• Prepare research reports, presentations, infographics, and data visualizations to communicate results effectively to diverse audiences • Act as a technical resource for interpreting AI/ML results and complex research data • Present findings in workshops, conferences, and organizational knowledge repositories • Collaborate with cross-functional teams including economists, policy researchers, and domain experts 6. Additional Responsibilities • Perform any other task assigned by the Competent Authority related to data analytics, AI applications, or policy research • Support capacity building initiatives for other researchers and staff members • Ensure compliance with data security, privacy regulations, and ethical AI practices Preference will be given to candidates with: • Currently working professionals with experience in building end-to-end AI/ML projects • Background in developing conversational AI systems, chatbots and voice-enabled applications • Experience with anomaly detection, time series forecasting, or risk assessment models
Salary	• 70,000 per month (salary as per NITI Aayog guidelines 2023)

Interested candidates possessing requisite qualification & experience may submit their CV (with date of birth and supporting documents) to email ID – recruitment-ncgg@gov.in latest by 23.11.2025.