Manya Jain

SKILLS

Python (NumPy, Pandas, Matplotlib, Scikit-learn), Java, C/C++, Shell Scripting, SQL, Feature Selection (Gravitational Search Optimization), Supervised Learning (SVM, Random Forest), Natural Language Processing (text embeddings, cosine similarity), Knowledge Graphs, AI Bias Detection Frameworks, Statistical Analysis (Excel, MATLAB), LaTeX, Tableau, Power BI, PyTorch, TensorFlow

Tools: Docker, Kubernetes (K3s/K3d), Jenkins CI/CD, Helm, OAuth2-Proxy, Prometheus, Grafana, WildFly, Redis, PostgreSQL, MySQL, XAMPP, Postman, Eclipse EE, VS Code, Git/GitHub, Linux/macOS Terminal, AutoCAD, SolidWorks

WORK EXPERIENCE

National Institute of Urban Affairs

Ministry of Housing and Urban Affairs, Govt. of India **Delhi**

DevOps Intern *(Aug 2024 - May 2025)*

- Automated deployments with Docker, K3s, and Jenkins, showcasing scalable methods for cloud-native research.
- Built Prometheus–Grafana monitoring for reproducible system performance evaluation in distributed platforms.
- Secured dashboards with OAuth2-proxy + SSO, applying research principles in access control and governance.

Smart Cities Mission, Govt. of India **Delhi**

Data Analytics Intern *(Dec 2023 – Feb 2024)*

- Built Tableau dashboards analyzing dropout trends across 100+ cities.
- Processed and visualized large-scale data from IUDX, Open Data Portal, and AMPLIFI.
- Supported data storytelling to inform government planning.

Siemens Ltd., DLF Cyber City **Delhi**

Project Trainee – Digital Inspections *(May 2023 – July 2023)*

- Managed digital inspection templates in SafetyCulture, improving post-event tracking and analysis efficiency by 30%.
- Supported planning, logistics reporting using Microsoft Excel, for healthcare device documentation.

EDUCATION

- **Arizona State University Tempe** **Tempe, USA**
  Master of Science in Computer Science *(Fall 2025 - Present)*
- **Manipal University** **Jaipur, India**
  Bachelor of Technology, CSE Core *(2021 – 2025)*

RECENT PROJECT WORK

UPYOG Quickstart - National Institute of Urban Affairs (NIUA) *Aug 2024 - May 2025*

- Designed and containerized the UPYOG V2.0 Quickstart architecture using Docker and K3d (single-node K3s), reducing deployment setup time by 88 % (6 h → 43 min local / 52 min VM).
- Implemented Jenkins CI/CD pipelines integrating WildFly, PostgreSQL, Redis, and Prometheus/Grafana monitoring for reproducible, end-to-end municipal deployments.

Tools Used: Docker, Kubernetes (K3d/K3s), Helm, Jenkins, WildFly, PostgreSQL, Redis, Prometheus, Grafana, Jaeger Tracing,

ICCC Smart Cities Portal Deployment - Smart Cities Mission, Government of India (via NIUA) *Jan 2025 - March 2025*

- Configured and debugged the ICCC portal backend using PHP–MySQL on XAMPP, resolving server-side and database issues for functional dashboards.
- Integrated dynamic municipal data modules and documented fixes aligning with government Smart Cities architecture for reliable deployment.

Tools used: XAMPP, PHP, MySQL, HTML, CSS, JavaScript, Bootstrap, Apache, phpMyAdmin

HireMate Conversational AI LinkedIn Assistant - Arizona State University, Tempe *Aug 2025 - Oct 2025*

- Built a Retrieval-Augmented Generation (RAG)–based chatbot for personalized job matching using vector embeddings, cosine similarity, and knowledge graph reasoning. Contributed to resume parsing, semantic matching, and evaluation design, integrating LLM-based extraction and human-in-the-loop feedback for explainable recommendations.

Tools Used: Python, PyTorch, Neo4j, Ollama, OpenAI API, Browser Use, Pandas, Scikit-learn, Matplotlib, JSONL, Git/GitHub

RESEARCH EXPERIENCE & CERTIFICATIONS

- "Feature Selection using Gravitational Search Optimization" Sophomore Year Minor Project - Manipal University Jaipur
- "Analysis and Mathematical Models of AI and its Legal Boundaries." Co-author - Manipal University Jaipur