Nami Jain

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Education

Columbia University Dec 2026
MS Data Science

Virginia Tech May 2025
BS Honors Computational Modeling and Data Analytics & Minor in Smart and Sustainable Cities 3.84/4.0
Summa Cum Laude, Calhoun Honors Discovery Program, Dean's List, Smart Cities for Good Research Assistant, Resident Advisor

Skills

Languages: Python, R, Java, SQL, C, MATLAB, DAX, HTML/CSS
Tools/Frameworks: AWS, GraphQL, HuggingFace, LangChain, TensorFlow, OpenCV, PyTorch, .NET, React, FastAPI, Flask, Agile
Software: PowerBI, Tableau, Git, AWS, MongoDB, Azure, SageMaker, JIRA, SQL Server

Experience

The MITRE Corporation June 2024 – Present
Data Scientist Intern Bedford, MA

- Built **3+ Kibana dashboards** by integrating VDOT transportation data and **Ubiquia** tripwire feeds using **Python** and **Elasticsearch**, enabling real-time analysis of traffic patterns and reducing manual reporting time by **40%.**
- Applied **NLP** and **NLU** techniques in **Python** to process heterogeneous data sources (text logs, traffic sensors, and camera feeds), identifying high-risk zones and root causes to support **FEMA** in targeted emergency response deployment; reduced false-positive alerts by **30%**.
- Collaborated with **CISA NRMC's STAR Team**, applying network analysis and data visualization in **Python, R,** and **GraphQL** to evaluate satellite infrastructure risks; co-authored a federally reviewed stakeholder engagement paper used to guide future investment and mitigation strategies to the **COSPAS-SARSAT Team**.

The Boeing Company June 2023 – Aug 2023
Information Technology and Data Analytics Intern Seattle, WA

- Built and validated **time series forecasting and classification models** using **Python and Power BI**, improving supplier disruption prediction by **31%** across **2M+ records**.
- Used **SQL and Python** to clean, join, and transform multi-source supply chain data; applied **outlier detection, correlation analysis, and regression diagnostics** to prepare high-quality datasets for downstream modeling and reporting.
- Designed **interactive Power BI dashboards** integrated with cleaned datasets to visualize key supplier risk metrics, enabling **real-time insights** for enterprise planners and improving response times to disruptions.

Smart Cities for Good Jan 2023 – May 2025
Artificial Intelligence Researcher Blacksburg, VA

- Applied **NLP** and **topic modeling (spaCy, scikit-learn)** to analyze **200+** resident survey responses, extracting sentiment and thematic insights on AI-generated image realism; **co-authored a publication (under review)** on GenAI spatial representation bias.
- Developed a version-controlled **Python web app (Flask, SQLAlchemy, REST API)** to track urban sustainability metrics; implemented **unit testing (PyTest)** and contributed to data cleaning and reconciliation for emissions benchmarks across city datasets.

Hypnos Jan 2023 – May 2025
Artificial Intelligence Researcher and Report Lead Blacksburg, VA

- Developed a **machine learning pipeline,** using **Python**, that used **real-time Fitbit biometric data** (heart rate, sleep stages) to dynamically regulate **sleep pod lighting aboard the ISS**, enhancing astronaut circadian alignment using **regression models and environmental control algorithms**
- Collaborated with **NASA**, **Boeing**, **iGuzzini**, and others to integrate **atmospheric engineering principles** with adaptive lighting strategies and **sensor-driven feedback loops**, simulating up to **40%** performance gains and presented prototype at the Venice Architecture Biennale 2025

Research & Publications

- Kim, J., **Jain, N**., Jang, K. M., & Ye, X. Imagining the City: Evaluating Visual Realism and Place Identity in AI-Generated Cityscapes Using DALL·E 2. Under review, Smart Cities for Good, Virginia Tech, 2025.