Pavani Jain

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Experience

Data Analyst Intern **July 2024**
Verve Bridge *Delhi, India*

- Performed Exploratory Data Analysis (EDA) on 50K+ records to identify trends, correlations, and anomalies in structured datasets.
- Built interactive Tableau dashboards with KPIs and heatmaps, improving stakeholder reporting efficiency by 30%.
- Automated data preprocessing pipelines using Python (Pandas, NumPy), reducing manual analysis effort by 40%.

Member, Northeastern AI Club **Sep 2025 – Present**
Northeastern University *Boston, MA*

- Participated in 6+ AI-focused workshops and hands-on sessions covering machine learning and deep learning concepts.
- Applied learned techniques in small group exercises involving data preprocessing, model training, and result interpretation.

Participant, NU Hacks **December 2025**
Northeastern University *Boston, MA*

- Implemented core features and basic ML logic in a 4–5 member hackathon team using Python, contributing to a functional prototype within a 48-hour timeframe.
- Contributed to feature implementation and model logic using Python and basic machine learning techniques.

Skills

Programming Languages: Python, R, Java, C, HTML, CSS, Bash
Machine Learning & AI: Supervised & Unsupervised Learning, Deep Learning, Natural Language Processing (NLP), Neural Networks, Feature Engineering, Model Evaluation, Anomaly Detection, Gen AI
Data Science: Exploratory Data Analysis (EDA), Statistical Analysis, Data Visualization, Hypothesis Testing
Libraries & Frameworks: PyTorch, TensorFlow, Keras, scikit-learn, Pandas, NumPy, Seaborn, Matplotlib
Databases & Data Engineering: SQL, MySQL, Data Cleaning, ETL Pipelines
Tools & Platforms: Tableau, AWS (Cloud DevOps), Git, Linux

Projects

Credit Card Fraud Detection **Apr 2025 – Aug 2025**
Python, Machine Learning, Deep Learning

- Developed anomaly detection models using autoencoders, achieving 92% recall in identifying fraudulent transactions.
- Analyzed Logistic Regression, Random Forest, XGBoost, and Neural Network models, with XGBoost achieving 94% ROC-AUC.

Amazon Product Recommendation System **Sep 2024 – Dec 2024**
Python, Machine Learning

- Built a collaborative filtering-based recommendation system that improved recommendation accuracy with an 18% reduction in RMSE.
- Assessed model performance using MAE and RMSE metrics to validate recommendation accuracy.

Netflix Usage Analysis **Jan 2023 – Mar 2023**
Tableau, SQL

- Examined user behavior and subscription trends using SQL queries and Tableau dashboards to uncover engagement patterns.
- Designed interactive Tableau dashboards with KPIs and heatmaps to support data-driven decision making.

Certifications

Deep Learning Specialization | Generative AI Certification | Java with Data Structures

Education

Northeastern University **Sep 2025 – Present**
Master of Science in Artificial Intelligence *Boston, MA*

- Relevant Coursework: Foundations of Artificial Intelligence, Machine Learning, Pattern Recognition, Algorithms