

VIKAS RAWAT

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ASPIRING DATA SCIENTIST | DATA ANALYTICS & VISUALIZATION | AI / ML ENTHUSIAST | SKILLED IN PYTHON SCRIPTING

EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems Master of Science (MS) in Data Science GPA: 3.96	New York, NY May 2025
Indira Gandhi National Open University Bachelor of Arts (BA) in Psychology	Delhi, India June 2023

TECHNICAL SKILLS AND CERTIFICATIONS

Programming Languages: Python, R, C, C++, SQL, Bash | **Database Management:** SQL, MySQL, SQLite, MongoDB, HBase
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, fastai, PyTorch, NLTK, FastAPI, Flask
Machine Learning Algorithms: Linear Regression, Logistic Regression, Decision Tree, Random Forest, KNN, K-means, PCA, Neural Networks, CNN, Collaborative Filtering, RNN, Natural Language Processing (NLP), Large Language Models (LLM), Retrieval Augmented Generation (RAG)
Miscellaneous: AWS, Hadoop MapReduce, Git, GitHub, MS Excel
Virtual Internship: Accenture, Data Analytics and Visualization Job Simulation, The Forage
Certifications: Supervised Machine Learning (Coursera), CS50P: Python (Harvard), CS50x: Intro to Computer Science (Harvard)
Hackathons: Computer Vision Hackathon, Voxel51 (Winner) | The Merge Hackathon, Causality (2nd Place)

EXPERIENCE

College and Beyond Inc Data Intern	Remote June 2024 – July 2024
<ul style="list-style-type: none">Lead rigorous data cleaning and preprocessing of college and student data using Pandas, from 5+ sources, to ensure accuracy and consistency across college rankings, admission statistics, and student performance metricsCrafted compelling data visualizations using Matplotlib and Seaborn, including Box plots, Heat maps and histograms, revealing insights on college location trends, tuition fees, and academic performanceCollaborated in team meetings and brainstorming sessions, to propose data-driven strategies for enhancing student engagement and retention	

PROJECTS

Fraud Alert	December, 2024
<ul style="list-style-type: none">Developed a Flask-based system leveraging AssemblyAI to transcribe phone calls, detect sensitive keywords (e.g., bank details), and alert users to prevent potential scams.	
Recommendation System using Nearest Neighbors Machine Learning Algorithm	May, 2024
<ul style="list-style-type: none">Performed data cleaning and EDA, merging and aggregating DataFrames in pandas, removing inconsistencies and duplicatesImplemented a utility matrix for collaborative filtering, resulting in a movie recommender system	
Anomaly Detection using EllipticEnvelope and IsolationForest Algorithm	March, 2024
<ul style="list-style-type: none">Visualized timeseries data of an instrument using plotly and Dash, and performed datetime feature extraction, enabling comprehensive anomaly detectionImplemented dimensionality reduction, increasing the silhouette score by 92.6%, enabling robust clusteringPerformed anomaly detection on the reduced data using 2 different algorithms and 2 different techniques	
Stock Price Prediction	February, 2024
<ul style="list-style-type: none">Collected and analyzed Apple stock price data using the yfinance API, totaling over 8 years of dataEngineered features, including a binary trading signal from daily price movements and a comparison of 50-day vs 200-day moving averages, using NumPy and pandasEvaluated multiple classification algorithms, including K-Neighbors, Random Forest and XGBoost, to predict price directionImplemented a simpler model based on moving averages comparison without machine learning, improving accuracy by 9%, illustrating the importance of strategic feature selection	