Nathan Ravichandran

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Profile

Detail-oriented and analytical Data Science student passionate about uncovering insights from data. Proficient in Python, machine learning, and data visualization, with hands-on experience building predictive models and performing in-depth exploratory data analysis. Eager to apply a strong foundation in statistical analysis and data mining to solve complex business problems in a challenging Data Analyst role.

Education

MSc in Data Science and Analytics *2025 – Present*
University of Westminster, London **B.Tech in Computer Science and Engineering** *2020 – 2024*

Hindustan Institute of Technology & Science, Chennai

Technical Skills

- **Programming Languages:** Python
- **Data Analysis Libraries:** Pandas, NumPy, Seaborn, Matplotlib
- **Machine Learning:** Scikit-learn (Logistic Regression, KNN, Naive Bayes, Decision Trees)
- **Text Analytics:** NLTK, VADER Sentiment, Gensim (LDA Topic Modeling), PRAW
- **Business Intelligence:** Palisade DecisionTools (@Risk, PrecisionTree), Excel Solver
- **Databases & Tools:** Basic SQL, Jupyter Notebook, WordCloud

Projects

Predictive Modeling for Breast Cancer Prognosis
Data Mining Machine Learning

- Developed classification models (Logistic Regression, KNN) to predict patient mortality, achieving 90% accuracy with a SEER dataset.
- Engineered features, handled missing values, and built a Decision Tree model to forecast patient survival months, providing data-driven clinical insights.

Web and Social Media Analytics
Sentiment Analysis Topic Modeling

- Extracted and analyzed over 100 posts and comments from Reddit (r/LoganPaul) using Python's PRAW API.
- Performed VADER sentiment analysis and LDA topic modeling to identify community trends and key discussion themes, presenting findings with word clouds.

UK Road Accident Analysis
Data Visualization Dashboarding

- Analyzed over 500,000 UK road accident records using Pandas to investigate how weather and time of day influence accident severity.
- Created heatmaps and charts to visualize key patterns, such as accident frequency hotspots during commute hours.

Additional Information

– **Work Eligibility:** Eligible to work in the UK.
– **Languages:** English (Fluent), Tamil (Native).
– **Availability:** Full-time, flexible for evenings and weekends.