

RAJA ANKUSH REDDY

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EDUCATION

Indiana University Bloomington

Master of Science, Computer Science

Aug 2023 - May 2025

GPA: 3.97/4

Relevant Coursework: Applied Machine Learning, Applied Database Technologies, Applied Algorithms.

Vellore Institute of Technology

Bachelor of Technology, Computer Science and Engineering

July 2018 - May 2022

CGPA: 9.07/10

Relevant Coursework: Advanced Data Analytics, Data Structures, Object Oriented Programming, DBMS.

WORK EXPERIENCE

NatWest Group (Royal Bank of Scotland)

Chennai, India

Data Engineer

July 2022 - July 2023

- Migrated financial application from SAS to AWS, enabling scalable pipelines and boosting performance by 30%.
- Built ETL workflows with Python, PySpark, and Airflow to streamline financial data processing.
- Enabled system accessibility for 20,000+ users while integrating data governance and quality practices.
- Integrated advanced big data technologies, improving data management workflows.
- Collaborated with business analysts and engineering teams to translate data into insights, driving risk strategies.
- Implemented data quality checks to detect and fix integrity issues in cloud pipelines.

Shiash Info Solutions Pvt.Ltd

Chennai, India

Data Engineer

Jan 2022 - June 2022

- Engineered a cutting-edge application leveraging NLP and ML to detect emotions and extract named entities.
- Engineered an NER model that reduced resume screening time by 50%, increasing HR efficiency by 80%.
- Utilized Emotion Detection with NLP to analyze user-generated data, achieving an accuracy rate of 85 percent.
- Built and validated structured datasets from unstructured sources, improving accuracy for NLP-based insights.
- Delivered structured reports and dashboards using Power BI to monitor model results and stakeholder KPIs.

TECHNICAL SKILLS

Programming Languages

Java, Python

Data Engineering

Data Mining, ETL, SQL (MySQL, SQL Server), PySpark, Airflow

BI and Visualization

PowerBI, DAX, Tableau, MS Excel, MS Access, KPI Reporting

Data Science

EDA, ML, Hypothesis Testing, A/B Testing, NLP, Feature Engineering

Frameworks/Libraries

Pandas, NumPy, Matplotlib, Scikit-Learn, NLTK, spaCy, Tensorflow

Cloud and Databases

AWS, Azure SQL, RDBMS, NoSql (MongoDB)

Developer Tools

Git, VS Code, Google Colab, Jupiter Notebook, Postman, IntelliJ

PROJECTS

Predictive Analytics for Mental Health Trends in Tech | *Python, Data Mining, ML, SQL, PowerBI*

- Conducted data mining and trend analysis on data to uncover mental health patterns in tech environments.
- Engineered and transformed data using Python and SQL, enabling high-quality model training and validation.
- Designed dashboards in Power BI to visualize prediction trends and stakeholder-focused KPIs.
- Developed classification models and applied cross-validation, yielding 92% accuracy and 95% precision.
- Evaluated outcomes using ROC-AUC, confusion matrix, and F1-score to ensure statistical reliability.

Dynamic Price Optimization for E-commerce | *ETL, Machine Learning, Deep Learning, SQL, PowerBI*

- Built ETL pipelines to extract, clean, and analyze large e-commerce datasets with inventory and sales data.
- Applied data mining techniques and time-series analysis to identify pricing trends and demand fluctuations.
- Designed visual reports in Power BI using DAX to monitor pricing efficiency and business KPIs.
- Trained Random Forest and Deep Learning models for dynamic price recommendations, achieving $R^2 = 0.87$.
- Conducted A/B-style evaluation on price model outputs to validate business impact and customer response.