Ganesh Raj K

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EDUCATION:

- **MS in Data Science**, Rutgers University | CGPA – 3.75 — May 2024
- **BTech in Computer Science and Engineering**, Indian Institute of Technology Indore — May 2019

EXPERIENCE:

Rutgers UCM, Data Analyst   **Feb 2023 – Present, New Brunswick**

- Harnessed learning data from Canvas API and SAS to predict new student course outcomes/CGPA grade using a classification model, achieving a 78 percent success rate in classifying new students.
- The dataset consisted of 12 diverse features, including demographic, academic, behavioral, and parent participation, for predictive modeling.
- Extracted data using Canvas API, performed preprocessing with Python and SAS, and applied ANN for the classification model.

Deloitte Consulting, Data Analyst   **June 2019 – Jan 2022, Bengaluru**

Restaurant Chain:
- Utilized K-Means clustering with NumPy to categorize restaurant patrons based on dining preferences from survey data.
- Created Tableau visualizations to link clustering results with risk and safety behaviors, leading to a 74% increase in takeaway orders.

Banking:
- Reduced churn by 30% by building a multivariate logistic regression model to identify at-risk customers.
- Conducted EDA with Matplotlib and NumPy, presenting insights for targeted marketing strategies.

Geospatial Intelligence:
- Developed an object detection system using Mask R-CNN and OpenCV to identify docked vessels from GIS imagery.
- Processed high-definition satellite data with Python and QGIS, ArcGIS automating workflows with AWS Lambda, AWS Step Functions, and monitored performance using AWS CloudWatch, saving $100k in labor costs.

Key Achievement: Was recognized with Applause award twice for my client centric work approach and timely deliverables.

MAQ Software, Data Engineer   **May 2018 – July 2018, Hyderabad**

- Established an ETL pipeline using SQL Server Management Studio and SSIS, consolidating three large Azure data marts with over 2 million records into one. Utilized Git for version control and collaboration. Developed triggers and stored procedures to identify inconsistencies during the transfer and maintain data integrity

PROJECTS:

Travelers Insurance Analytics University Contest: [github]
- Conducted Tweedie regression on a zero-inflated dataset of over 29,000 records using NumPy and statsmodels, fine-tuned parameters with grid search, and assessed model efficacy with the Gini index using Matplotlib for visualization.
- This systematic approach secured a third-place finish among 200+ teams.

Gen AI LinkedIn Application bot: [github]
- Automated LinkedIn Easy Apply using Selenium in Python.
- Built a RAG API with LlamaIndex and GPT Turbo using FastAPI and used Streamlit for an interactive data visualization dashboard.

SKILLS

- **Programming & Scripting**: Python, R, PyTorch, scikit-learn, pandas, numpy, Statsmodels
- **Database:** Postgres, PySpark. MongoDB, SQL
- **Data Visualization:** Tableau, Matplotlib, Seaborn, Plotly, Streamlit, QGIS, ArcGIS
- **Cloud:** AWS, Azure

CERTIFICATIONS

- AWS Machine Learning Specialist
- AWS Cloud Practitioner