**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]**](https://github.com/ganeshraj-k/travelers_modeling_competition)

* 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]**](https://github.com/ganeshraj-k/linkedinsucks)

* 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