**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 to predict new student course outcomes/CGPA grade using a classification model which scored a 78 percent success rate in classifying new students.
* The dataset consisted of 12 diverse features including demographic academic, behavioral, parent participation for the Data modeling.
* Extracted data using canvas Api, preprocessed using python, and used ANN for the classification model.

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

Medical Data NER:

* Enhanced query speed for a medical record database with over 2 million records.
* Used Amazon Comprehend with Python to perform Named Entity Recognition on the DynamoDB dataset.
* Added recognized entities as tags using AWS Glue for the ETL process.

Restaurant Chain:

* Categorized restaurant patrons based on their dining preferences from survey data using K-Means clustering.
* Generated detailed Tableau visualizations to correlate the cluster results with their risk and safety behaviors.
* This analysis helped strategize marketing along with promotion of safety protocols. which led to an 74% increase in take away orders the next quarter.

Banking:

* Mitigated the lockdown-induced customer churn by constructing a multivariate logistic regression model to Identified churn-prone customers and key contributing factors.
* Performed EDA using matplotlib and communicated results to stakeholders. helped them target marketing accordingly resulting in a 30% churn reduction in the next quarter.

***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. Developed triggers and stored procedures in place to identify inconsistencies during the transfer and maintain data integrity.

PROJECTS:

**Chatbot with a personality:** [**[github]**](https://github.com/ganeshraj-k/Conversational-model-with-a-personality)

* Built a generative AI (Gen AI) model chatbot to replicate Chandler Bing’s dialogue style from “Friends,” utilizing an extensive dataset of 8,700 dialogues.
* The model, featuring a seq2seq with 2-layer LSTM network with a dropout layer, achieved a BLEU score of 0.63.

**Gen AI LinkedIn Application bot:** [**[github]**](https://github.com/ganeshraj-k/linkedinsucks)

* Automated applying to jobs on LinkedIn easy apply using selenium in python.
* For the question and answering, built a RAG API using LLamaindex for querying with GPT turbo as baseline model and used FastAPI to make and deploy the API Client.

SKILLS

* **Programming & Scripting**: Python, R
* **Machine Learning & Data Science:** PyTorch, scikit-learn, pandas, numpy. PySpark
* **Database:** PostgreSQL, SparkSQL, SSIS, Excel
* **Data Visualization:** Tableau, Matplotlib, Seaborn, Plotly

CERTIFICATIONS

* AWS Machine Learning Specialist
* AWS Cloud Practitioner