

# Ganesh Raj K

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## EDUCATION:

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- **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:

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- 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 predictive 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:

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**Chatbot with a personality:** [\[github\]](#)

- 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:** [\[github\]](#)

- 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

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- **Programming & Scripting:** Python, R
  - **Machine Learning & Data Science:** PyTorch, scikit-learn, pandas, numpy. PySpark
  - **Database:** PostgreSQL, SparkSQL, SSIS
  - **NLP & Generative AI:** LangChain, LlamaIndex, RAG, vectorDB, FastAPI
  - **Data Visualization:** Tableau, Matplotlib, Seaborn, Plotly
  - **Cloud:** AWS(EC2, RDS, L3, Lambda, Redshift, Glue)

## CERTIFICATIONS

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- AWS Machine Learning Specialist
- AWS Cloud Practitioner