

Ganesh Raj K

◆ ganesh_012@outlook.com ◆ 848 313 8525 ◆ [linkedin.com/in/ganeshraj-k](https://www.linkedin.com/in/ganeshraj-k) ◆ github.com/ganeshraj-k

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 the Canvas API to predict new student course outcomes and CGPA grades using an ANN classification model, which achieved a 78 percent success rate in classifying new students.
- Analyzed correlations between the features and understood the data distributions using detailed Tableau visualizations.
- Consolidated the results by creating a Tableau dashboard and presented the results to the academic success department.

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 for a major healthcare client.
- 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.

Banking:

- Mitigated the lockdown-induced customer churn by constructing a multivariate logistic regression model in an Agile environment to identify 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.

Employee Search:

- Crafted an employee search tool with an R Shiny interface, utilizing R for data handling and text extraction from resumes.
- Applied text search and NLP to match and tag employees with specific skills. Implemented a dynamic tableau dashboard to show the current resource availability and skills most in demand, skills in shortage.
- Created an Excel VBA Macro, to generate weekly employee dataset about availability status and their current assignments, in order to be sent to Human Resources.

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: [\[github\]](#)

- 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.
- To explain the model better, generated a tableau dashboard to show trends of the show; s ratings, viewership and pairwise number of conversations between all 6 of the lead characters.

2024 Travelers Insurance Analytics University Contest: [\[github\]](#)

- Conducted Tweedie regression on a zero-inflated dataset of over 29,000 records, fine-tuned parameters using grid search, and assessed model efficacy with the Gini index. This systematic approach secured a third-place finish among 200+ teams.

SKILLS

-
- Databases: PostgreSQL, MongoDB, t-SQL, DynamoDB, ChromaDB
 - Office: Excel, PowerPoint, VBA
 - Data Visualization and Manipulation: Tableau, Power BI, Matplotlib, Seaborn, Plotly, pandas, numpy, Python, R

CERTIFICATIONS

- AWS Machine Learning Specialist
- AWS Cloud Practitioner