VENKATA RAMIREDDY SEELAM

Hyderabad, India | +91 | ramreddyseelam1@gmail.com |Linkedin |

Profile Summary

Enthusiastic Machine Learning Engineer polished in optimizing systems to address dynamic needs, improve collaboration and strengthen security. Weighs crucial business and IT needs against procedural limitations to assess roadmaps for optimal functions.

Education

Bachelor of Technology, Electronics and Communication Engineering - SNIST, Hyderabad   Jun 2019 - Jul 2023

Coursework: Data Structures and Algorithms, OOPS, Databases, Data Engineering, Statistics, Data Mining,

Skills

Programming:	C, Java, Python, SQL.
Cloud & Tools:	AWS Lambda, GCP, AWS S3, AWS RDS,
Visualization Tools:	Tableau, Power BI
Database:	SQL Server, MySQL, MongoDB
Packages:	NumPy, Pandas, Matplotlib, Scikit-learn, Seaborn, TensorFlow, PyTorch, NLTK, OpenCV

Experience

Junior Data Engineer

- Developed and Maintained Data Pipelines for PCRM Service, Processed 7M**+** customer records, migrated data to **AWS** using EMR, S3, Hadoop for effective data management and built data lakes using AWS Glue for **Data Analysis**.
- Streamlined custom ETL process for a finance client using **AWS Glue** and ingested in **AWS RedShift**.
- Performed auditing, inspecting and visualizing **S3** server access logs using **AWS Lambda**, and **AWS Athena**.
- Develop reports and presentations to convey analytical findings to leadership teams, providing actionable recommendations to support data-driven decision-making.
- Performed in an **Agile environment** for collaborated with backend software developers in building AWS Code Pipeline to implement continuous delivery, ensuring frequent feature releases.

Machine Learning Intern |

- Developed a POC for Automated data labeling jobs for shopping images with **Apache Beam** distributed processing, leveraging metadata parsing for dataset labeling.
- Designed an image classification model using **TensorFlow** trained on 23K**+** labeled images.
- Utilized Kubeflow on Google Kubernetes Engine for distributed training and optimizing computational efficiency Achieved **81%** accuracy, reducing manual workload by 63%. Utilized **Docker** for deployment environments.

Projects

Health Care Chatbot: [**github**]

- Created a chatbot for disease forecasting using voice or text inputs, with a Tkinter-based desktop interface.
- Enhanced chatbot efficiency with NLP and machine learning models.
- Added location access to provide healthcare providers with users' locations for timely assistance in serious cases.

Voice Based Email Using Speech Recognition:

- Developed a speech recognition engine for accurate transcription and designed an email website using HTML, Django, CSS, Python, Flask, and SQL.
- Enhanced user experience with NLP algorithms and integrated APIs for email services like Gmail and Outlook for seamless email management.
- Integrated AI to adapt to user preferences and improve system responses, with a focus on user-centered design for better accessibility and inclusivity.

Heart Disease Risk Prediction:

- Developed a machine learning model to predict heart disease risk using health data, applying algorithms to identify key risk factors.
- Implemented advanced data wrangling techniques and employing algorithms such as Random Forest and Support Vector Machines (SVM) for accurate heart disease risk prediction.
- Generated a comprehensive analysis report by applying statistical analysis and feature engineering techniques, revealing critical risk factors and patterns in the data.