SAI YESHWANTH MEKALA

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EDUCATION

University of Colorado Boulder – Boulder, Colorado **August 2023 – May 2025**
Degree: Master of Science**, Major:** Data Science, **GPA:** 4/4

SASTRA Deemed University – Thanjavur, Tamil Nadu **June 2017 – July 2021**
Degree: Bachelor of Science**, Major:** Information and Communication Technology**, GPA:** 3.46/4

EXPERIENCE

Tata Consultancy Services, India | Systems Engineer **July 2021 – June 2023**

- Collaborated with the Backend Team and developed a Virtual Career Fair web page for Stevens Institute of Technology by applying HTML, CSS, JavaScript, and PHP skills, contributing to 50% of the Project.
- Applied SQL, PL/SQL, and Java skills to maintain and monitor the Student Information System for Excelsior University and guided the interns for Broken Links Automation Testing in the course catalog page. Collaborated with the Manager and developed Kanban board and dashboards in Microsoft Excel for showcasing the effectiveness, resulting in 96% client satisfaction index in the Client Satisfaction Survey.

PROJECTS

Breast Cancer Detection Using Machine Learning

- Explored the Breast Cancer dataset using Exploratory Data Analysis and Implemented a high performing Logistic Regression model on Breast Cancer Wisconsin dataset and achieved an accuracy of 99.3%.
- Collaborated with a professor and published the research work in the International Journal of Advanced Trends in Computer Science and Engineering.

Heart Disease Identification from Patients' Social Posts, Machine Learning Solution on Spark

- Implemented Machine Learning models in Pyspark to handle the Big Data from Cleveland Heart disease dataset and tuned them using Hyperparameter tuning and the K-fold cross validation resulting in the highest accuracy of 94.9% for Random Forest Classifier. Later, applied this model to the Real-time data from Twitter Streaming API which was fetched into Kafka topic in Apache Kafka and then processed into Apache Spark.

Applying Dimensionality Reduction in Collaborative Filtering Recommender Systems.

- Predicted Top N movies for given user ID by implementing SVD and NMF on Movie lens 1M dataset and evaluated the models using cross validation and Grid search resulting in 0.87 RMSE for SVD.

AWARDS

Achieved On-the-Spot award for excellent client feedback and Learning Achievement Award.

CERTIFICATION

Tiger Edge - Student Development Program in Data Science by Tiger Analytics.

SKILLS

Programming: Python, R, Java, C++
Database: SQL, MySQL, Oracle, MongoDB
Data Visualization: Tableau, Power BI
Cloud: IBM Watson Studio, Google Cloud, AWS
IDE's: Jupyter Notebook, R Studio, VS Code, Eclipse
Languages: English, Telugu (Native), Hindi
Others: Hypothesis Testing, Apache Spark, Apache Kafka, Data Structures, Excel, Time management, Communication.