SUHAS RAMESH
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EDUCATION

Master of Technology in Computer Science ***Aug'23– May'25***
University of Texas at Dallas GPA: 3.89
Bachelor of Technology in Computer Science Engineering ***Jul'19– Jul'22***
Reva University, Bangalore GPA: 3.96

SKILLS:

- Programming & Tools - Python, SQL, PySpark, Kafka, Scikit-learn, XGBoost, Pandas, NumPy, BeautifulSoup, MLlib MongoDB, Redis, Oracle, Data Pipelines
- Classification (Naive Bayes, Logistic Regression, Random Forests), Gradient Boosting (XGBoost), Hyperparameter Tuning (GridSearchCV), Sentiment Analysis, Feature Engineering

WORK EXPERIENCE

Teaching Assistant, Department of Computer Science, University of Texas at Dallas, Dallas ***Aug'24– Present***

- Taught 100+ students ML concepts (Linear Regression, SVMs, Naive Bayes) from CS 6375 coursework.
- Led labs on gradient descent and model evaluation using Spark MLlib for scalable models.
- Mentored projects with PySpark, Kafka, and MLlib, boosting accuracy by 20%.
- Explained polynomial regression and SVM optimization with DeepLearning.AI insights.

Software Development Engineer, Software AG, Bengaluru ***Jul'22–Jun'23***

- Built "Smart Feedback" with a sentiment analysis model using OpenCV, Redis, and MongoDB, improving feedback accuracy.
- Optimized SQL and Oracle database tasks with shell scripting, cutting release times by 50%.
- Led Jenkins integration testing, shortening release cycles by 20%.

INTERNSHIP

Software Development Engineer Intern, Software AG, Bengaluru ***Feb'22– Jun'22***

- Analyzed data with Pandas and NumPy, enhancing ML model inputs.
- Used Scikit-learn and TensorFlow for predictive modeling

ACADEMIC PROJECTS

Attendance Through Face Recognition ***Sep'20– May'21***

- Developed a real-time attendance system using OpenCV and LBPH algorithm with a Haar Cascade Classifier.
- Trained a face recognition model on a custom dataset of 29 individuals, automating attendance updates in Excel.
- Reduced manual data entry time by 80% via automated face detection and recognition pipeline.

Sentiment Analysis on Social Media Data to Predict the Outcome of Soccer Matches ***Aug'23– Dec'23***

- Built a prediction system using RoBERTa for sentiment analysis and XGBoost for match outcome forecasting.
- Scraped Reddit data with BeautifulSoup, managing storage with Redis and MongoDB NoSQL databases.
- Achieved RMSE of 1.83 (home) and 1.87 (away) goals, enhancing accuracy with betting odds integration.

Real-time Reddit Comment Word Count with Kafka, Spark, and Elastic Stack ***Feb'24– Apr'24***

- Built a streaming pipeline with Kafka and PySpark to process Reddit comment word counts in real-time.
- Optimized data ingestion using Logstash and stored results in Elasticsearch for scalability.
- Designed a Kibana dashboard to visualize word frequency trends dynamically.

Ad Click Prediction Using Machine Learning: Comparative Analysis, Tuning and Model Evaluation ***Aug'24– Dec'24***

- Built an ML pipeline to predict ad clicks, preprocessing data with statistical imputation, KNN, and missing value removal across six datasets.
- Trained and evaluated 30 models (Naive Bayes, Logistic Regression, Decision Trees, Random Forests, XGBoost) using Scikit-learn.
- Applied feature scaling, one-hot encoding, and label encoding, tuning hyperparameters with GridSearchCV to optimize bias-variance tradeoff.

CERTIFICATIONS

- Machine Learning Specialization – Deeplearning.ai
- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms
- Unsupervised Learning, Recommenders, Reinforcement Learning.