

Vamshidhar Reddy Parupally

Linkedin
Portfolio

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Education

- **San Jose State University [CGPA : 3.9]** San Jose, California
Master of Science in Software Engineering. Jan 2022 - Dec 2023
Courses: Cloud Technologies, Data Mining, Enterprise Distributed System, Enterprise Application Development, Virtualization Technologies.

Skills Summary

- **Programming Languages:** Java, Javascript, Python, SQL.
- **Technologies:** Kafka, Spark, NodeJS, ReactJS, REST API, HTML, CSS, GIT, JIRA, Spring Boot.
- **Data Base:** Relational DB, MongoDB, Vertica DB, Cassandra
- **Others:** AWS, Docker, Numpy, Matplotlib, Pandas, Scikit learn, seaborn, LSTM, Light GBM.

Experience

- **TCS - Client Apple** Hyderabad, India
Software Developer Jul 2020 - Dec 2021
 - Reduced data administration time by 30% while guaranteeing the continuance and improvement of services by building an end-to-end data management solution for the Apple sales team using React JS and Vertica db.
 - Developed Kafka and Spark pipeline to handle real-time streaming data, apply business logic and send data to appropriate destination tables in Cassandra and relational database.
 - Achieved lower processing time by developing low latency services using the Java framework and by caching mechanisms. Introduced smart excel based uploads which help user to detect errors in excel files even before uploading the data. This has saved 60% of user time for entering data.
 - Created metrics dashboard using Splunk to monitor health of application and devised triggers to warn about outage to cut down manual effort by 50%.

Academic Projects

- **Autonomous Drone Rental System for Agriculture**
 - Developed and implemented an autonomous drone rental system, providing farmers with a streamlined solution for farm surveying and pesticide spraying.
 - Utilized cloud mission planning and Ardupilot simulation to ensure the efficient operation of drones.
 - The system was designed to allow farmers to easily book drone services by registering their farm land geo coordinates, ensuring the drones fly to the correct location and return safely.
 - **Technologies used:** Cloud Mission Planner, Ardu Pilot Simulator, React JS, Spring Boot, Bootstrap, Sockets.
- **Walmart Sales Prediction**
 - Developed a model to predict the future trends of the sales in Walmart based on the day of the week using Regression and Time Series models.
 - Performed data pre-processing and cleaning along with feature selection and feature extraction.
 - Built time series model using LSTM and regression model using Light GBM.
 - Improved the accuracy of the model by 10% using PCA and by hyper tuning using Grid Search CV.
 - **Tools and Technologies used:** Python, LSTM Model, Regression Model, Light GBM Model, Google Co-Lab.
- **Airport Management System**
 - Designed and developed an airport management system using React JS, Node JS, and MongoDB as a class project.
 - The system offered a comprehensive solution for managing flight schedules, arrival and departure details, and airport and airline employee logins.
 - Key features included the ability to add new flights, update schedules, auto-assign baggage carousels, and automatically assign gates to incoming flights, streamlining the airport management process.
 - **Technologies used:** React JS, Node JS, Bootstrap, JUnit, AWS, Mongo DB.

Clubs

- **Tau Beta Pie :**
 - Member of Tau Beta Pie national engineering honor society

Hobbies

- Badminton, and Bowling