

# Siddhidhatri Rohith Reddy Jaggari

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## EDUCATION

### University of Maryland, Baltimore County, Baltimore, MD, USA

Aug 2022 – May 2024

*Masters of Professional Studies – Data Science, GPA: 3.9/4.0*

- Coursework: Intro to Data Science, Introduction to ML,ETL, Data Pipelining, Big Data Processing, Data Management, Data Mining

### Jawaharlal Nehru Technological University, Hyderabad, India

Aug 2017 - Jul 2021

*Bachelor of Technology in Computer Engineering, GPA: 3.46/4.0*

- Coursework: Python Programming, Data Structures, DBMS(SQL), Data Communications, Software Engineering

## TECHNICAL SKILLS

### Programming

Python, Oracle SQL, Redshift, Data Science (TECH), ETL ,Web: HTML, CSS

### Tools

Tableau, Power BI, GitHub, Airflow, Hadoop, Jupiter Notebook, MySQL, Microsoft Excel, AWS, Prompt Engineering.

### Libraries & Frameworks

Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, Apache Spark, Snowflake

### Interests

Data Engineering and Data Pipelining, ML and AI, Statistical Analysis, Data Science and Data Analytics

## WORK EXPERIENCE

### Infosys Ltd, System Engineer, Hyderabad, India

Aug 2021 – Jul 2022

- Revamped PostgreSQL database structure for 200k+ accounts at Broad ridge Financial, boosting transaction speed by 20% and delivering exceptional service and support to clients.
- Collaborated with a team of 11 developers to maintain updated data reports across different applications, fixing over 500 bugs and reducing defects by 35%.
- Engineered the implementation of a data monitoring and alerting system, ensuring real-time identification and resolution of potential data issues. This initiative resulted in a 25% reduction in data discrepancies and enhanced overall data quality.
- Collaborated with cross-functional teams to design and implement a scalable data architecture for a client's CRM system, optimizing data storage and retrieval processes. This initiative not only improved system performance by 30% but also received commendation from the client for seamless integration of data solutions.

### Config Software Solutions, Internship, Hyderabad, India

Jun 2019 - Jul 2019

- Teamed with 3 students. Extracted 14 precise fuzzy rules based on temperature and demand membership functions. Achieved an average relative error of only 0.23 on both training and testing datasets, demonstrating model accuracy.
- Implemented data visualization techniques to validate rule extraction. Analyzed over 500 records to create accurate pricing rules, enhancing decision-making.
- Spearheaded the implementation and validation of a real-time fuzzy logic control system, analyzing actual pricing data to derive valuable insights, which led to enhanced pricing strategies and a notable 15% increase in revenue.

## PROJECTS

### Newsletter Machine Learning Project

Jan 2023 - Mar 2023

- Streamlined a dataset with 12 distinct values in the target category, executing a comprehensive data cleaning process to optimize analysis; removed unnecessary columns, addressed missing values, and restored original data types, enabling precise insights for decision-making, resulting in improved business outcomes.
- By incorporating techniques like Simple Imputer, OneHotEncoder, employing cross-validation, and conducting a thorough evaluation of machine learning models, including Logistic Regression, Decision Tree, SVM, and Random Forest, improved the accuracy of the models by 15%.

### Twitter Sentimental Analysis Using Big data

Feb 2023 - Mar 2023

- Developed predictive models for Tesla, Microsoft, Apple, Amazon, and Google, integrating financial market data with sentiment analysis to enhance data-driven decision-making in finance.
- Investigated the relationship between Twitter sentiment trends and stock market performance, emphasizing the significant impact of negative tweets on market instability; provided valuable insights to traders and investors. Generated an outstanding 85% accuracy in sentiment analysis, evaluating sentiments related to stocks.
- Executed a sophisticated sentiment analysis model using Jupyter Notebook and Apache PySpark, showcasing proficiency in distributed computing for efficient tweet analysis and scalable Big Data solutions. Utilized Tableau to transform complex sentiment analysis outputs into compelling and easily understandable visual insights.

### Big Data Processing on Play Store data

Sep 2022 - Dec 2022

- Skillfully managed a large Google Play Store dataset, streamlining over 2.17 million entries and refining 25 features through advanced preprocessing methods including deduplication, standardization, and null correction, setting a solid foundation for comprehensive analysis.
- Expertly harnessed the power of AWS technologies, including S3 Buckets for scalable data storage, AWS Glue and Data brew for data transformation and cleanup, and Redshift for efficient data warehousing. This approach ensured efficient data handling and integration, showcasing expertise in cloud-based data architecture.
- Utilized Tableau to distill vast app performance data into insightful visuals, uncovering key market trends like downloads, ratings, and genre preferences. This analysis provided stakeholders with actionable intelligence, demonstrating a keen ability to convert data into strategic insights.

## WORKSHOPS AND ACTIVITIES

- Artificial Intelligence with Machine Learning- WAC (What after College), NIT Warangal.
- Data Science using R -2019, Sreenidhi Institute of Science and Technology.
- SREEVISION 2019 - Organizer, Management in aspects of planning which includes Food and Technical paper presentations.
- ADASRA 2018 – Coordinated in aspects of Games planning and arts management.