SOWMYA YELLA

San Diego-CA-92011|(945)-249-2285 |yellasowmyareddy@gmail.com| www.linkedin.com/in/sowmyareddy-yella

SUMMARY

Data Engineer proficient in building scalable data pipelines, optimizing databases, and implementing ETL processes.Expertise in improving data infrastructure and analytics capabilities through creative solutions. Proficient in Python, SQL, and AWS cloud services, with excellent knowledge of big data technologies like Apache Spark and Hadoop.Capable of using BI technologies to generate actionable insights, resulting in improved decision-making across several projects.

EDUCATION

M.S., Information Technology and Management   **Richardson, TX**
The University of Texas at Dallas   May 2024
- **Coursework:** Object Oriented Programming in Python, Advance statistics for data science, Business Analytics with R, Database Foundations for Business Analytics, Spreadsheet Modeling and Analytics, and Big data.

Bachelor of Engineering., Computer Science and Engineering   **Hyderabad, India**
Sreyas Institute of Engineering and Technology- Hyderabad   July 2018 – July 2022
Activities/Societies: ITMSLC, Infinity Lion's Club

KNOWLEDGE AND SKILLS

Python | C | Java, JavaScript| HTML |MySQL, SQL, Postgres, NoSQL, MongoDB | Hadoop, Spark| AWS| Tableau | PowerBI |Amazon Redshift | Google BigQuery | Apache Nifi| Advanced MS Excel |Github

CERTIFICATIONS

AWS Cloud Practitioner Essentials, Tableau for Data Scientists, Machine learning with Python, Introduction to Data Science by Cisco, Introduction to Data Analytics, Data Analytics Essentials by Cisco.

EXPERIENCE

Void Main Technologies   *February 2022 – June 2022*
Web Application Developer   *Hyderabad, India*
- Built a high-precision machine learning model for air quality prediction, employing **Python, NumPy, Pandas, and Scikit Learn** attaining a notable 92% accuracy and effectively reducing community health risks.
- Devised a comprehensive web application for visualizing and monitoring air quality predictions, using **React.Js, HTML, CSS,** and JavaScript on the front end and **Flask** on the back end resulting in a 25% increase in user engagement.
- Enhanced model accuracy by 15% through detailed analysis, cleansing of extensive air quality datasets, and implementing **noise reduction** techniques.

MetaFin Consulting India Pvt. Limited   *July 2020 - January 2022*
Data Analysis Consultant   *Hyderabad, India*
- Developed **Python** scripts and utilized SQL databases to automate tax data analysis, ensuring timely and accurate insights for clients, resulting in a 10% increase in client satisfaction.
- Leveraged PowerBI and Tableau to craft intuitive tax dashboards, presenting key metrics and compliance trends to clients, leading to a 12% improvement in client engagement.
- Enhanced tax filing accuracy by 15% through data-driven **decision-making** and process optimizations, resulting in increased client trust and satisfaction, and a 20% reduction in client complaints.

ACADEMIC PROJECT EXPERIENCE

Intelligent EV Charging Network Platform   *January 2024 – May 2024*
- Built predictive maintenance model using **ML** algorithms (regression, time series) in Python (sci-kit-learn, TensorFlow), resulting in a 12% increase in charging station availability.
- Managed and analyzed charging station data using relational databases **PostgreSQL and MySQL**, ensuring efficient data storage, retrieval, and analysis, resulting in improved metrics tracking and informed decision-making processes.
- Collaborated with cross-functional teams to integrate cloud services like **AWS** for hosting predictive models and scalable backend infrastructure, contributing to a 10% reduction in downtime and enhancing charging station reliability.

Revitalizing Patient Tracking: ABGH Digital Upgrade   *August 2023 – December 2023*
- Spearheaded a comprehensive digital transformation initiative at Alpha Beta Gamma Healthcare (ABGH), overseeing the integration of advanced technologies across 17 facilities spanning multiple states.
- Integrated GPS location data into the patient portal app, resulting in a 30% reduction in patient check-in times.
- Achieved a 98% accuracy rate in maintaining secure and compliant patient records, utilizing **MySQL**, SQL, and Postgres for database management, alongside AWS for cloud-based data storage contributing to the organization's reputation for **data integrity.**

Progress Report Management System   *January 2023-April 2023*
- Designed and developed a web-based Complete Progress Report Management System leveraging skills in **HTML, CSS,** and JavaScript to streamline the reporting process and enhance efficiency for over 100 projects across multiple departments.
- Executed **stored procedures and triggers** to automate routine tasks such as sending notifications and updating report statuses, saving over 100 hours of manual work per month.
- Optimized SQL queries and indexes to improve query performance, reducing report retrieval times by 91% from 10 seconds to 0.9 seconds and enhancing overall system efficiency and user satisfaction.