SOWMYA YELLA

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SUMMARY

Data Analyst with 3 years of experience in data analysis, and machine learning, delivering over 15% improvement in business outcomes through tailored strategies. Proficient in **Python, SQL, AWS**, and BI tools like **Tableau and Power BI**. Expert at designing and implementing robust **ETL** pipelines processing over **1M** records. Skilled at optimizing data workflows, cutting data processing time by more than 20%, and boosting client engagement by 12%+.

EDUCATION

M.S., Information Technology and Management   May 2024
The University of Texas at Dallas - Richardson, TX   CGPA - 3.5
Bachelor of Technology., Computer Science   July 2018 – July 2022
Sreyas Institute of Engineering and Technology - Hyderabad, India   CGPA – 7.7

KNOWLEDGE AND SKILLS

Programming Languages: Python, Java, JavaScript, R, C
Web Technologies: HTML, CSS, React.js
Database Systems: SQL, PostgreSQL
Data Science & Machine Learning: Numpy, Pandas, Scikit-learn, Matplotlib, TensorFlow, EO/IR, Data Modeling, Agile Methodologies
Other Tools & Technologies: Tableau, PowerBI, Git, SAS, Docker, Linux, Looker, MS Excel, AWS, Azure, GCP

CERTIFICATIONS

Google Data Analytics Professional, 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

The University of Texas at Dallas   *January 2024 – May 2024*
Market Research Data Analyst   *Richardson, TX*
- Devised predictive maintenance model using **ML** algorithms (regression, time series) in Python (sci-kit-learn, TensorFlow) increasing charging station availability by 12%.
- Administered charging station data using **PostgreSQL and MySQL**, enhancing metrics tracking and decision-making processes.
- Integrated **AWS** for hosting predictive models and scalable backend infrastructure, reducing downtime by 10% and improving reliability.

Void Main Technologies   *February 2022 – June 2022*
Data Quality Analyst   *Hyderabad, India*
- Examined over 100,000 air quality data records using **Python**, leading to a 15% improvement in model accuracy for predicting Air Quality Index (AQI) levels across various metropolitan areas.
- Enhanced predictive performance by 20% through **feature engineering** techniques(outlier detection & normalization).
- Visualized data in **Matplotlib and Seaborn** for real-time pollutant monitoring and decision-making.

MetaFin Consulting India Pvt. Limited   *January 2020 - January 2022*
Data Analysis Consultant   *Hyderabad, India*
- Automated tax data analysis using **Python scripts and SQL databases**, increasing client satisfaction by 10%.
- Crafted user-friendly tax dashboards with **PowerBI and Tableau**, presenting key metrics and compliance trends to clients, leading to a 12% improvement in client engagement.
- Streamlined tax filing processes, boosting accuracy by 15%, and reducing client complaints by 20%.

PROJECTS

IPL Data Analysis   *May 2024 – June 2024*
- Engineered IPL datasets utilizing Apache Spark on Databricks, processing millions of records from Amazon S3 for data transformation and evaluation.
- Conducted advanced analytics with SparkSQL and PySpark, revealing a 0.65 correlation between toss wins and match victories, and identifying a 60% higher win probability for teams with high strike rates.
- Developed interactive dashboards using Matplotlib to analyze team dynamics, player performance, and match outcomes.

Uber Data Analytics   *February 2024 - March 2024*
- Built an end-to-end data pipeline using Mage for ETL, processing NYC taxi trip data stored in Google Cloud Storage, optimizing data handling and storage in BigQuery.
- Implemented Python-based data transformations in Jupyter Notebooks, improving query performance by 20%.
- Designed interactive Looker Studio dashboards, driving stakeholder engagement and increasing operational efficiency by 15%, resulting in $1.6M in total revenue.

Volunteer Experience

Fundraising Volunteer – The Akshaya Patra Foundation USA | Email team Ambassador – UTD ITM SLC | UTD Infinity Lion's Club-Member