SAI VAISHNAVI

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SUMMARY

A data enthusiast with 6+ years of experience in data engineering and Business Intelligence. Strong background in BI tools like Power BI and Tableau, with expertise in transforming raw data into actionable insights through effective reporting and visualization. Skilled in SQL, Python, and big data technologies such as Hadoop, Spark, and AWS, with a focus on aligning data infrastructure and analytics solutions with business objectives to drive strategic decision-making.

EXPERIENCE

Alef Education — Abu Dhabi, UAE
Business Intelligence — Jul 2024 - Dec 2024

- Increased student rating on lesson content up to 5% by building a trend forecast dashboard that helped in re-aligning content quality.
- Built visualizations on daily active logins (DAU) for students and teachers and identified weekly and monthly login patterns for anolomy detection in Tableau.
- Reduced job failures by building and improving custom Airflow DAG for BI jobs and automated with email alerts in Python.
- Created and optimized data models and customized views, connecting different entities of student reports in a Redshift database for visualization and reduced loading time by 4% on warehouse queries.
- Handled data migration initiative on moving warehouse queries from an old schema to a modified schema, and adjusted all related reports in a Tableau dashboard.

SPEL — Trichy, India
Data Engineer — Jan 2020 - Jun 2024

- Analyzed historical data from the boiler systems and developed data-driven models to forecast power demand and fuel management, resulting in a 15% reduction in fuel consumption.
- Built automated dashboards and reporting systems that tracked key performance indicators (KPIs) such as heat rate, steam generation, and auxiliary power consumption.
- Collaborated with plant engineers to analyze performance data, identifying areas for process optimization and fuel consumption reduction.
- Built a predictive maintenance model using sensor data from turbines to forecast potential breakdowns and schedule preventative maintenance.
- Created and optimized SQL queries to extract key performance data from plant databases for reporting and analysis.

Infosys — Chennai, India
Systems Engineer — Dec 2017 - Dec 2019

- Extracted and validated 150K rows of financial forms data through PL/SQL functions, and uploaded transformed data to the PostgresSQL Database using PySpark.
- Improved data quality by 23% by handling dynamic data validation through custom python, PySpark and PL/SQL scripts.
- Built a data validation dashboard in Tableau to monitor weekly updated validation pipeline on financial transactions.

SKILLS

Programming:	Python, Java
Data Processing:	Numpy, Pandas
Visualization:	Tableau, Power BI, matplotlib
Database:	Oracle, PL/SQL, SQL, Redshift
Oracle:	Workflow Builder, Form

EDUCATION

Anna University — Trichy, India
BE Electronics and Communication Engineering *GPA: 7.5* — Aug 2013 - May 2017