

SHASHI KUMAR MALOTHU

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Professional Summary

Dynamic **Data Analyst** specializing in **Data Engineering**, with expertise in **SQL, Python, ETL**, and **Cloud Platforms (AWS, GCP, Azure)**. Skilled in building scalable data pipelines, automation, and **Big Data technologies (Hadoop, Spark, Kafka)**. Strong background in **database management (MySQL, PostgreSQL, MongoDB)** and **data visualization (Tableau, Power BI)**. Proficient in **predictive analytics, A/B testing**, and **workflow optimization**, transforming raw data into actionable insights.

Education

Belhaven University

Master's degree in Information Technology and Management

Jan 2024 – Aug 2025

United States

National Institute of Technology

Bachelor of Technology in Electrical and Electronics Engineering

Aug 2019 – May 2023

India

Technical Skills

Programming & Automation: SQL, Python, Bash, PowerShell

Data Engineering & ETL: Apache Airflow, Talend, Informatica, Data Pipelines, Workflow Automation

Big Data & Cloud: Hadoop, Spark, Kafka, AWS (Redshift, S3), GCP (BigQuery, DataFlow), Azure (Data Lake, SQL DB)

Databases: MySQL, PostgreSQL, MongoDB, Oracle

Data Visualization & Analytics: Tableau, Power BI, Google Data Studio, Excel, A/B Testing, Hypothesis Testing

Machine Learning & Statistics: Predictive Analytics, Regression, Scikit-learn (Linear Regression, Decision Trees)

Work Experience

Sai Balaji Enterprises

Data Analyst

Jan 2023 – Jan 2024

India

- Automated ETL processes with SQL, reducing manual data handling by 40%.
- Designed interactive Tableau dashboards for real-time business insights.
- Enhanced marketing campaigns with data-driven A/B testing, increasing conversion rates by 12%.
- Collaborated with cross-functional teams to optimize data pipeline integration, improving decision-making efficiency.

Certifications

- Google Data Analytics (GOOGLE)
- Python for Data Science (NPTEL)
- Hybrid Electric Vehicle (1Stop.ai)
- TCS iON Career Edge - Young Professional (Tata Consultancy Services)

Academic Projects

Washington Trails & Trekking Finder

Oct 2024 - Jan 2025

Technologies: Python (Pandas, BeautifulSoup), SQL, Apache Spark, Tableau

- Developed an app for hikers to find trails based on difficulty and weather, streamlining trail discovery.
- Cleaned 50,000+ trail records using Python (Pandas, BeautifulSoup), ensuring data accuracy and completeness.
- Built a data pipeline with SQL & Apache Spark, boosting retrieval speed by 60% and implemented real-time weather updates, enhancing user experience with dynamic trail recommendations.

Mood-Based Music Recommender

Sep 2023 - Dec 2023

Technologies: Natural Language Processing, SQL, Apache Spark, Apache Airflow

- Created a music recommendation system based on user mood using NLP, enhancing user engagement.
- Processed 10,000+ songs, stored in SQL, and integrated sentiment analysis to improve mood detection.
- Utilized Apache Spark for ETL pipeline and Apache Airflow for automation, boosting efficiency by 30%.

Solar-Powered Drone

Jan 2023 - May 2023

Technologies: Python, Predictive Modeling

- Developed a solar-powered drone, optimizing energy usage to extend flight time by 15%.
- Built predictive models for battery consumption, improving efficiency by 18% with a solar energy tracking system.
- Enhanced drone autonomy with AI-powered navigation for dynamic path optimization and efficient solar energy usage.

Hybrid Electric Vehicle Analysis

Jun 2021 - Aug 2021

Technologies: Data Analysis, Battery Performance Modeling

- Analyzed Hybrid Electric Vehicle (HEV) performance to optimize energy usage, improving battery performance by 15%.
- Developed predictive models to forecast battery degradation, extending battery life by 10%.
- Implemented real-time battery monitoring, optimizing energy consumption and reducing power loss during operation.