Aditya Mahale

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Summary

Data Analytics and Automation enthusiast skilled in designing end-to-end analytical workflows using Python, SQL, and Power BI. Experienced in transforming complex data into actionable business intelligence and deploying predictive analytics models. Proficient with Excel, Tableau, MySQL, PySpark, and Hadoop. Adept at statistical analysis, data cleaning, and visualization to improve decision-making efficiency and maintenance performance. Demonstrated ability to collaborate in agile environments and deliver high-impact analytical solutions aligned with organizational goals..

Education

MIT Academy of Engineering   *Oct 2022 – May 2026*
Bachelor of Technology – Electronics and Telecommunication Engineering

- CGPA: 8.1/10.0
- **Coursework:** EDA, Data Science, Machine Learning, Big Data Analytics, IoT, Digital Signal Processing, Predictive Analytics

Experience

Software Intern   *Mumbai, Maharashtra*
Geany Softech Pvt. Ltd.   *July 2025 – Present*

- Developed and deployed Power BI dashboards integrating IoT sensor data streams for real-time monitoring of equipment performance and predictive maintenance analysis, improving reporting efficiency by 30%.
- Designed and implemented a LangGraph-powered chatbot for the company website to automate user queries and knowledge retrieval, reducing manual support workload by 40%.
- Conducted applied research for building a Sanskrit Large Language Model (LLM) from scratch, covering data collection, tokenization, transformer architecture design and pre-training optimization

Publications

CrayFit – AI-Based Diet Planning System (Application No. 202521040368)   April 2025
Sakshi Satpute, ***Aditya Mahale***, Atharva Solanke, Yash Mali, Prof. Shubhangi Kale

Projects

SBI Car Insurance Analytics   *github.com/SBI* ↗

- Processed 35,000 + records using Python and SQL to identify key revenue drivers and policy trends.
- Designed ETL automation pipeline for premium segmentation and developed Power BI dashboards improving targeting efficiency by 20%.
- Conducted KPI tracking and statistical analysis to support data-driven business decisions.

License Plate Recognition with Real-Time SMS Notification

- Implemented a computer vision pipeline using OpenCV and TensorFlow to detect license plates and trigger automated SMS alerts via Twilio.
- Deployed on edge devices to enable real-time equipment monitoring and data logging.

Skills

Technical: Python, SQL, PySpark, Hadoop, Power BI, Tableau, Excel, Data Pipelines, Exploratory Data Analysis, Statistical Modeling, Dashboard Design, Business Intelligence Reporting

Soft: Analytical Thinking, Problem Solving, Agile Collaboration, Technical Documentation, Process Improvement