Aditya Mahale

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github.com/AdityaM24

Summary

Final-year B.Tech student specializing in Machine Learning and Data Science with proven industry experience as AI Research Intern developing custom LLM architectures. Expert in Python, SQL, TensorFlow, and statistical modeling with hands-on Deep Learning research and Power BI dashboard development. Patent holder seeking Data Analyst, Data Scientist, or ML Engineer roles in AI-driven organizations.

Skills

Technical Skills: Python, SQL, C++, Scikit-learn, TensorFlow, Keras, Power BI, Tableau, MySQL, AWS, Docker, Git, Apache Spark

Core Competencies: Machine Learning, Deep Learning, Data Analytics, Statistical Analysis, Predictive Modeling, Data Visualization, Big Data Analytics, Business Intelligence, MLOps

Experience

AI Research Intern, Geany Softech Pvt. Ltd. - Mumbai, India   July 2025 - Present

- Leading Deep Learning and predictive modeling research to architect a novel Large Language Model (LLM) using Algorithm Development and Statistical Modeling techniques
- Independently developing custom tokenization logic and internal representations for language modeling tasks as part of end-to-end model design.
- Communicated technical findings to cross-functional stakeholders and documented research workflows for reproducibility and team onboarding.
- Building Power BI dashboards for an IoT project to visualize Key Performance Indicators (KPIs), device metrics, and operational performance for cross-functional reporting.

Projects

Loan Eligibility Prediction Model   github.com/loan

Successfully developed a predictive model to assess credit risk for financial institutions, leveraging advanced machine learning techniques.

- Engineered robust feature pipeline processing 480+ loan records with advanced preprocessing techniques (missing data imputation, categorical encoding, feature scaling)
- Deployed Support Vector Machine achieving 83.3% accuracy with hyperparameter optimization using GridSearchCV and cross-validation
- Technologies: Python, SVM, scikit-learn, Data Preprocessing

SBI Car Insurance Analysis   github.com/SBI

Conducted a comprehensive analysis of car insurance policy records to visualize trends and inform strategic decision-making processes.

- Performed Data Mining and Statistical Analysis on Big Data comprising 35,000+ policy records using Python and Data Analytics methodologies
- Developed interactive dashboards to visualize Rs.141.9 Cr in gross premiums and Rs.34,645 Cr in insured declared value, enabling data-driven insights
- Delivered over 10 actionable visual insights to support premium targeting and segmentation strategies, enhancing marketing and operational effectiveness
- Technologies: Python, Pandas, NumPy, Seaborn, Plotly

Education

MIT Academy Of Engineering, BTech in Electronics and Telecommunications   Oct 2022 - May 2026
(Minor- Data Science)

- GPA: 8.1/10.0
- **Coursework:** Exploratory Data Analysis, Data Visualization, Machine Learning, and Neural Networks.

Patent/Publication

CrayFit- An AI-Based Diet Planning System For Individuals   July 2025

Sakshi Satpute, *Aditya Mahale*, Atharva Solanke, Yash Mali, Prof. Shubhangi Kale

Application Number: 202521040368

Certifications

- PCAP: Programming Essentials in Python - Cisco
- AI/ML Virtual Internship - Google x AICTE
- Data Analyst Virtual Internship - Deloitte (Forage)
- Intro to SQL - Kaggle