

Aditya Anand Kulkarni

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About Me

Aspiring computer science engineer with a strong foundation in Python, Machine Learning, and Flutter. Passionate about developing innovative solutions and enhancing user experiences through technology.

Education

Shri Sant Gajanan Maharaj College of Engineering, BE in Computer Science and Engineering Nov 2022 – Present

- GPA: 7.58/10.0

Technologies & Skills

Languages: Python, Java, SQL, Dart.

ML & Data Science: Pandas, NumPy, Scikit-learn.

Data Engineering & Automation: Web Scraping (Playwright), ETL Pipelines, SQLite, Automated Scripting.

Developer Tools: Git, Linux, Jupyter Notebooks.

Projects

Intelligent Job Pipeline (LinkedIn Agent) (In Progress)

- Developing an autonomous ETL pipeline utilizing Playwright for resilient, logged-in scraping of complex LinkedIn job data (incl. applicant counts); integrating SQLite to ensure data integrity and prevent duplicates.
- Designing a custom "Priority Score" algorithm to rank jobs by post recency and applicant volume, with the goal of delivering a prioritized intelligence report daily via a cron-scheduled smtplib agent.

End-to-End Price Prediction Model (Used Cars)

- Engineered a high-accuracy prediction model, improving the R² score from a 1.2% baseline to 90.4% through rigorous data preprocessing and feature engineering.
- Executed a full ML workflow: performed EDA and data cleaning on messy, text-based data, then trained, compared, and ensembled Random Forest, XGBoost, and CatBoost into a final Stacking Regressor.

Loco-Info (Ministry of Railways, Central Railway)

- Developed Loco-Info, a comprehensive management system to streamline railway shed operations by tracking locomotive maintenance, staff allocation, and scheduling.
- Engineered a centralized database that improved data accessibility and accuracy, digitizing and replacing manual record-keeping processes.

Experience

Electric Loco Shed, Bhusawal. Ministry of Railway, Central Railway (App Developer Intern)

- Contributed to the development of loco-info, a railway shed management system, by designing and implementing key features for locomotive maintenance scheduling.
- Leveraged a real-time database for live data synchronization and built the front-end UI with Flutter, significantly improving data accuracy and operational efficiency.

Achievements and Certifications

Vihang Website (Website here) Developed a user-friendly website for the college's drone club using HTML, CSS, JS, and Bootstrap, hosted on the college portal. Applied for copyright to secure our personal contribution.

Courses - Python, Introduction to Machine Learning, Pandas: Source - Kaggle

Extra-Curricular Activities

ISTE, SSGMCE (Secretary): Coordinated chapter activities, managed communications, and oversaw workshops and seminars to ensure participant engagement.

Pursuit, SSGMCE (Tech Team Member): Led promotional efforts through posters and videos, increasing event awareness by 20% and collaborating with teams to boost attendance by 10%.