



Akshay Kumar
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Education

Degree	Institute	Year
BS, Data Science	Indian Institutes of Technology Madras	2026
B.Tech ESE	National institute of Electronics and Information Technology Aurangabad	2026

Skills

- Tools :Python, SQL (Postgre), Java, JavaScript, Excel, Git, Postman API
- Library: Flask, Scikit-learn, Pandas, Numpy, Tensorflow, Selenium, Vue.js, Report Lab,Seaborn
- Skills:Data Science, Machine Learning, Computer Vision, Deep Learning, Web Scraping,Web-Devlopement
- Soft Skills: Problem-Solving, Critical Thinking, Time Management,Leadership

Projects

Deepfake Scam Call Detection

- Designed and implemented a deepfake scam call detection system leveraging advanced audio analysis and deep learning.
- Integrated real-time audio capture with WebRTC and processed inputs using PyDub and custom classification models to differentiate genuine calls from deepfake audio.
- Applied signal processing and machine learning techniques for reliable scam call identification.

From Refinery Floors to Market Scores: Decoding IOCL's Operational and Financial Success

- Analyzed refinery production data alongside stock market trends to uncover operational inefficiencies impacting financial performance.
- Utilized Python, Pandas, and statistical modeling to derive actionable insights for margin strategy enhancements.
- Developed data-driven visualizations to correlate production metrics with market performance, supporting strategic decision-making.

Household Service Management System

- Developed a Household Service Management platform using Flask, Vue.js, HTML, Celery, and Redis with multirole user authentication for secure access.
- Integrated asynchronous task processing and a responsive frontend-backend architecture, enhancing efficiency and user experience.

Quiz Master WebApp

- Developed a Flask/SQLAlchemy quiz platform with role-based access and real-time analytics, streamlining assessment creation and improving student performance tracking.
- Built responsive UI with Bootstrap and Chart.js, implementing timed quizzes and data visualizations that increased student engagement and provided critical insights to educators.

Leadership

- Group Leader, Corbett House, IIT Madras: Acted as a liaison between group members and house leadership, ensuring effective dissemination of information and addressing concerns.
- Voluntering in College Events like Sports chess coordinator and TedxNielitAurangabad Technincal and Ticket lead ,

Achievements

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