

RAHUL JIGNESH GANATRA

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EDUCATION

K J SOMAIYA INSTITUTE OF TECHNOLOGY

Bachelor of Technology, Artificial Intelligence and Data Science (CGPA: 8.8)

Mumbai
2026

WORK EXPERIENCE

Software Engineer Associate

BlackCoffer | July 2025 – July 2025

- Executed large-scale web scraping for a client, acquiring over 1.4 million data rows.
- Engineered an automation script to seamlessly ingest scraped data into a **PostgreSQL** database, eliminating manual entry.
- Leveraged **Apache AGE Viewer** to visualize and analyze complex datasets for actionable insights.
- Streamlined and automated the entire data pipeline, transforming a manual process into an efficient workflow.

App Development Intern

Society for Data Science (S4DS), KJSIT Chapter | September 2023 – November 2023

- Designed and deployed 3 mobile applications using **Flutter and Firebase**, reducing project delivery time by 25%.
- Integrated **REST APIs** for seamless data exchange between mobile apps and databases.
- Collaborated with a team of 5 developers to build scalable, user-friendly applications.
- Conducted usability testing, improving app performance by 15%.

PROJECTS

NAVI HAND: [Repository](#)

- Control your computer cursor using hand gestures via webcam.
- Track real-time hand movements with **OpenCV** and **Media Pipe** technology.
- Trigger clicks, drag, and lock screen using specific hand signs.
- Enjoy smooth, customizable, and touch-free computer interaction anytime.

KAVACH: [Repository](#) [Video](#)

- Developed a web app using **HTML, CSS, Firebase, and Flask** to modernize law enforcement operations.
- Implemented digital case tracking, real-time communication, and secure evidence collection.
- Integrated AI-based crime prediction, geolocation services, and public reporting for enhanced safety.
- Deployed on **AWS Amplify** with secure database integration for real-time data access.

FLAG-IT-UP: [Repository](#) [Video](#)

- Built an AI-driven web application to detect and prevent suspicious financial transactions using machine learning.
- Enabled real-time classification of transaction risk levels (high, medium, low) through behavioural analysis.
- Created an intuitive admin dashboard to monitor transactions, visualize risk scores, and track user activity.
- Applied intelligent detection rules inspired by AML research to instantly flag potentially fraudulent activities.

SAFESHE: [Repository](#) [Video](#)

- Engineered a women's safety application leveraging **Flutter and OpenStreetMap** for real-time navigation.
- Implemented intelligent route optimization algorithms distinguishing between fastest and safest paths.
- Developed crowdsourced safety feature enabling users to mark and track unsafe locations.
- Integrated FIR-based verification system ensuring authentic reporting of dangerous zones citywide.

SKILLS

- Programming Languages:** HTML, CSS, JavaScript, Python, Dart, React, Next JS
- Frameworks:** Flutter, Django, Flask, Matplotlib, OpenCV, Media Pipe
- Databases:** MySQL, Firebase, PostgreSQL, Neo4j, MongoDB
- Tools:** VS Code, Git, Kaggle, Docker, Power BI, Excel
- APIs:** REST, Google Maps API, ChatGPT API, Yahoo finance API

CERTIFICATIONS

- Databases for Developers: Foundation – Oracle
- Data Analysis with Python – IBM
- Python for Data Science – IBM
- Data Analytics and Visualization Job Simulation – Accenture
- Supervised Machine Learning: Regression and Classification – Coursera

EXTRACURRICULAR ACTIVITIES

Secretary, Society for Data Science (S4DS), KJSIT

- Organized Mumbai's first 36-hour offline hackathon with 200+ participants, increasing visibility by 30%.

Organizing Head, Student Council, KJSIT

- Led a team of 15 to organize the college's cultural and sports festivals, managing logistics and engaging 1,000+ attendees.

ACHIEVEMENTS

- Received a *Letter of Appreciation* from the Head of Department for significant contributions to event organization.
- 2nd Runner-up, ALGOFORGE'25, IEEE, K J Somaiya Institute of Technology, Mumbai