# SUFIYAN KHAN

AI-ML Engineer

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## OVERVIEW

I'm a final-year Computer Science student specializing in Artificial Intelligence and Data Science. As a Full Stack Machine Learning Developer, I excel in building, deploying, and maintaining end-to-end ML solutions. My expertise extends to Flutter for cross-platform mobile and Cloud technologies for scalable deployments. With a strong foundation in data analysis and a passion for technology, I've completed diverse projects in both academic and freelance settings. I'm eager to contribute to cutting-edge projects, drive meaningful results, and continue growing in AI, data science, and mobile app development.

## EDUCATION

**UNIVERSITY OF MUMBAI** **June 2021- June 2025**
*BE - Artificial Intelligence and Data Science, CGPA Till Semester V – 7.76/10* *Mumbai, Maharashtra*

**MAHARASHTRA SATATE BOARD** **May -2020**
*Higher Secondary Certificate (HSC) - 69%* *Mumbai, Maharashtra*

**UTTAR PRADESH SATATE BOARD** **May -2018**
*Secondary School Certificate (SSC) - 66%* *Jaunpur, UttarPradesh*

## TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, SQL, HTML/CSS
- **Frameworks and Libraries:** Flutter, Node.js, Express.js, React, Flask, NLTK, Scikit-learn, TensorFlow, Pandas, NumPy, PyTorch, Keras, FastAPI, Three.js, Bootstrap, Matplotlib, Seaborn, OpenCV, Plotly, Django, Spring Boot, Beautiful Soup, Requests, Socket.IO.
- **Machine Learning and AI:** Machine Learning, Natural Language Processing, Deep Learning, Data Analysis and Visualization
- **Database:** MySQL, MongoDB
- **Cloud:** Google Cloud, Docker
- **Development:** Backend Development, App Development (Flutter), Competitive Programming, RESTful API Design, Version Control (Git)
- **Web Development:** Full-stack Development, Frontend Development
- **IDEs and Tools:** Visual Studio Code, IntelliJ IDEA, Jupyter Notebooks

## CERTIFICATIONS

- Machine Learning A-Z: AI, Python & R + ChatGPT Prize [2024] (Udemy)
- Smart Analytics, Machine Learning, and AI on Google Cloud (Google, Coursera)
- Flutter & Dart - The Complete Guide [2024 Edition] (Udemy)
- The Complete 2024 Web Development Bootcamp (Udemy)
- Text Analysis and Natural Language Processing With Python (Udemy)
- Digital Transformation with Google Cloud (Google, Coursera)
- Google Cloud Big Data and Machine Learning Fundamentals (Google, Coursera)

## PROJECTS

**PneumoCare:** Web-based application for pneumonia detection using chest X-rays and blood reports. Implemented CNN with TensorFlow/Keras for image analysis, scikit-learn for blood report processing, and NLP-based chatbot for user assistance. Developed responsive front-end with HTML5, CSS3, and JavaScript. Used Flask/FastAPI for backend API, implemented AJAX for asynchronous data handling, and Docker for containerization. Technologies: Python, TensorFlow, Keras, scikit-learn, NLTK, Flask/FastAPI, HTML5, CSS3, JavaScript, Bootstrap, AJAX, Docker.

**Droid:** Flutter-based mobile application leveraging OpenAI API for advanced query summarization and natural language processing. Implemented efficient state management and responsive UI design. Utilized RESTful API integration for seamless communication with OpenAI services. Technologies: Flutter, Dart, OpenAI API, RESTful API integration, Provider/Bloc for state management.

**ChaCha.AI:** Cross-platform Flutter application integrating OpenAI's DALL-E API for AI-powered image generation and sophisticated ChatBot system. Implemented Firebase backend for real-time database operations, user authentication, and cloud functions for serverless architecture. Technologies: Flutter, Dart, Firebase (Realtime Database, Authentication, Cloud Functions), OpenAI API, State management (Provider/GetX).

**Leaf Health Analysis:** Flutter app for automated plant health assessment using advanced image processing and machine learning techniques. Implemented TensorFlow Lite for on-device inference, custom image segmentation algorithms, and RESTful API for backend communication. Technologies: Flutter, Dart, TensorFlow Lite, OpenCV, Python (FastAPI/Flask for backend), SQLite for local storage.

**Movie Recommendation System & Sentiment Analysis:** Full-stack web application providing personalized movie recommendations and sentiment analysis of user reviews. Implemented collaborative filtering algorithm, integrated IMDB/TMDB APIs, and developed sentiment analysis using NLTK. Front-end built with responsive design principles. Technologies: HTML5, CSS3, JavaScript, Flask, Python, scikit-learn, NLTK, AJAX, RESTful APIs, SQLAlchemy for ORM.

**Attendance Management System:**Java Swing-based desktop application for comprehensive attendance tracking and management. Implemented MVC architecture for maintainable code structure, JDBC for database operations, and custom reporting features. Technologies: Java, Swing, JDBC, MySQL, MVC architecture, JUnit for unit testing.

**Python Projects:** Developed various Python applications showcasing proficiency in different domains. Projects include games using Pygame, data visualization tools with Matplotlib and Seaborn, web scraping scripts with Beautiful Soup, and automation tools using Selenium. Implemented core CS concepts like data structures and algorithms. Technologies: Python, Tkinter, Numpy, Pandas, Matplotlib, Seaborn, Pygame, Beautiful Soup, Selenium, SQLite.

## LEADERSHIP / EXTRACURRICULAR

**Google Cloud Arcade Facilitator:** Guide and mentor students through Google Cloud learning pathways, organize and conduct hands-on workshops on Google Cloud technologies, facilitate completion of Google Cloud skill badges and certifications, foster a community of cloud enthusiasts, and promote cloud computing.
**July 2024 – Sept 2024**
*Google Cloud*

**CSI Vice Chairperson** Lead CSI team in organizing tech events, workshops, and seminars, manage 20+ team members to ensure smooth operations, promote CSI's goals on campus and beyond, and develop strategic plans for enhancing student engagement in technical activities.
**July 2023– Sept 2024**
*TEC Campus*

**E- Cell Technical Coordinator:** Organization of tech events and initiatives, organised 36-hour In campus hackathon collaborate with cross-functional teams for seamless event execution.
**Jan 2024– Sept 2024**
*TEC Campus*

**GDSC (Google Developer Students Club) - DevHelp Lead**
Lead development efforts in student projects and hackathons, provide technical mentorship and support to student developers, organize workshops and coding sessions to enhance technical skills, and facilitate collaboration between GDSC and other tech communities on campus.
**July 2023– Sept 2024**
*TEC Campus*