

# Akshay Kesarkar

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 @AkshayKesarkar

 /Akshay Kesarkar

## Education

### BACHELOR IN TECHNOLOGY

K.J. Somaiya Institute of Technology,

Mumbai university, Mumbai

Artificial Intelligence and Data Science (Overall GPA = 8.7/10)

2025 -Present (4<sup>th</sup> year)

## Experience

### GEOFENCING AND LAND DATA ACQUISITION | CASCADE

4<sup>th</sup> June - 17<sup>th</sup> June | 2023 (Karnataka, Sameer wadi)

- Data acquisition processes, Excel skills, and Google Earth plotting for agricultural projects.
- Analyzed and acquired data for agricultural research, enhancing Excel techniques and mapping 700+ plots on Google Earth, increasing data accuracy by 40%.

### K J SOMAIYA INSTITUTE OF TECHNOLOGY | WINTER INTERSHIP

15<sup>th</sup> Dec – 18<sup>th</sup> Jan | 2023-24

- Project development using AI-ML and Deep learning organized by KJSIT in association with **Claidroid technologies Pvt. Ltd.**,
- Gained practical expertise in Machine learning and Deep learning concepts using Python through an intensive 4-week training program.

## Position of Responsibility

### PUBLICITY-ADMIN | AMERICAN CHEMICAL SOCIETY (ACS), KJSIT

Sept – Nov | 2023

Organized and managed gaming events in collaboration with tech brands, ensuring engaging and interactive experiences. Coordinated with industry partners to integrate brand promotions and enhance event appeal. Additionally, organized fun learning events to foster educational engagement through innovative and entertaining formats.

## Achievements

### PUBLISHED A RESEARCH PAPER

Published Research Paper Titled "Real-time Accident and Suspicious Activity Detection with AI Security Cameras" International Journal of Scientific Research in Engineering and Management Volume 08, Issue 02 February 2024.

## Technical Skills

**PROGRAMMING** Python R C

**FRONT END TOOLS** HTML CSS Streamlit

**DATA ANALYSIS AND VISUALIZATION TOOLS** NumPy Pandas Matplotlib Seaborn R SQL Excel Hadoop

**OTHER SKILLS** Data structure Algorithms Probability and Statistics Machine Learning Deep Learning Database and Warehousing Big Data

## Academic Projects

### MENTAL HEALTH CHATBOT

Engineered a chatbot leveraging ANN and DL techniques and JSON files, providing mental well-being support and resources

Created an interactive and visually appealing front-end for the chatbot using Streamlit, enabling seamless user interaction and real-time updates to mental health support and resources through a responsive and user-friendly web interface.

- Tech stack - Python ANN DL JSON Streamlit

### STOCK MARKET PREDICTION

Developed a sophisticated stock market prediction model utilizing Long Short-Term Memory (LSTM), Gated Neural Networks and N-beats Model to achieve enhanced accuracy in forecasting stock prices.

Built an interactive dashboard using Streamlit to visualize prediction results and trends, providing users with real-time insights and an intuitive interface for exploring stock market forecasts.

- Tech stack – Python DL algorithm TensorFlow Streamlit

### ACCIDENT DETECTION

Developed an advanced object detection system using the YOLOv8 AI model, enhancing real-time incident recognition for improved safety.

Integrated Google Firebase and Streamlit to streamline data handling and provide a user-friendly interface, ensuring efficient and accessible system functionality

- Tech Stack – Python Streamlit YOLOv8

### OTHER BASIC DATA SCIENCE PROJECTS

Basic Data Science Projects (Python)

## Certifications

- Data Mining (NPTEL)
- Machine Learning Specialization (Coursera)