Akshay Kesarkar

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@AkshayKesarkar   /Akshay Kesarkar

Education

BACHELOR IN TECHNOLOGY

K.J. Somaiya Institute of Technology,   *2025 -Present (4th year)*

Mumbai university, Mumbai

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

Experience

GEOFENCING AND LAND DATA ACQUISITION | CASCADE   *4th June - 17th 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   *15th Dec – 18th 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 VISUALIZTION 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

Built a Streamlit-based chatbot using ANN, DL, and JSON to provide mental well-being support with real-time interaction.

- Tech stack : Python   ANN   DL algorithm   JSON   Streamlit

STOCK MARKET PREDICTION

Created an LSTM, Gated Neural Net, and N-beats based model with a Streamlit dashboard for real-time stock price forecasting.

- Tech stack : Python   DL algorithm   TensorFlow   Streamlit   Plotly

ACCIDENT DETECTION

Designed a real-time accident detection system using YOLOv8 with Firebase and Streamlit for effective UI and data handling.

- Tech Stack : Python   Streamlit   YOLOv8

AI-POWERED BUSINESS PREDICTIVE ANALYTICS

Building a Streamlit-based platform that automates data cleaning, model selection, and business insights using ML and OpenAI LLMs for natural language interaction.

- Tech Stack : Python Pandas Scikit-learn TensorFlow Streamlit, Plotly OpenAI API

OTHER BASIC DATA SCIENCE PROJECTS

Basic Data Science Projects (Python)

Certifications

- Data Mining (NPTEL)
- Machine Learning Specialization (Coursera)
- Applied Data Science with Python (IBM)
- Python Course for Beginners (Scaler)
- R Programming for Data Analysis (Coursera)
- Python and SQL for Data Science (Scaler)
- Deep Learning Course (Scaler)