

Romir Bedekar

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Summary

Passionate Computer Science student specializing in data science and machine learning, with a strong focus on computer vision and innovative AI solutions. Proficient in Python and experienced in developing impactful projects such as Brain Tumor Segmentation and Stock Market Prediction. Demonstrated success in both frontend and backend development using ReactJS, NextJS, and MongoDB. Proven ability to lead projects and deliver results, with a track record of success in hackathons and practical applications. Eager to leverage my expertise in data science and machine learning while contributing to cutting-edge technologies.

Education

Ahmedabad University Oct. 2022 – Present
B.Tech in Computer Science and Engineering Ahmedabad, Gujarat
CGPA: 3.1/4 (As of June 2024)

Technical Skills

- **Machine Learning & Deep Learning:** TensorFlow, Scikit-Learn, Keras, Dlib, Pandas, Numpy, Matplotlib, OpenCV, Yfinance
- **Programming Languages:** Python, C++, JavaScript, SQL (MySQL), MongoDB, NodeJS
- **Technologies & Frameworks:** Flask, Django, FastAPI, Streamlit, React, NextJS, NodeJS, ANT-Design, Material-UI, Chakra-UI, Mantine-UI, BeautifulSoup

Projects

Brain Tumor Segmentation June 2024

- Developed a brain tumor segmentation model using a combination of UNet and KAN (Kolmogorov-Arnold Network), known as UKAN, achieving exceptional accuracy in medical image analysis.
- Tools Used: TensorFlow, Scikit-Learn, Pandas, Numpy, nibabel, segmentation_models_3D, Matplotlib

Stock Market Prediction Feb 2024

- Developed a LSTM model predicts the price based on historic data, news sentiment analysis and financial metrics of company.
- Tools Used: TensorFlow, Scikit-Learn, Pandas, Numpy, YFinance, Streamlit, Matplotlib

Face Recognition based Attendance System Jan 2023

- An advanced attendance system utilizing facial recognition, developed with OpenCV and a Tkinter GUI.
- Tools Used: OpenCV-Python, face_recognition, Pandas, Numpy, cmake, dlib

Travel Agency Website Aug 2023

- A responsive travel agency website of Harry Potter theme with online booking of hotels, flights, destinations with PayPal transaction and parallax homepage.
- Tools Used: Express, Vanilla CSS, MongoDB, paypal-rest-sdk, node-mailer

Advanced Bus Tracker Mar 2024

- Bus Tracker Pro app, developed in Next.js and MongoDB, accurately tracks the real-time location, speed, estimated time, and profiles of school buses, including student/driver details.
- Tools Used: ReactJS, NextJS, Ant-design, MongoDB

Additional Experience and Awards

- **First Prize, Travel Agency Website**
Awarded 1st prize in Website Making Competition 4.0 for the Travel Agency Website problem statement.
- **Teaching Assistant (2024)**
Served as a Teaching Assistant at Ahmedabad University for two courses: CSE103 and ENR106.
- **CSE Lead, Robotics Club**
Led the CS team in the Robotics Club for one year, overseeing project development and team activities.