Amol Vyas

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About

I am a Computer Science Engineering student and am a member of The Coding Club of RV College of Engineering. I have a keen interest in Artificial Intelligence and Machine Learning and am passionate about problem solving and learning new technologies. .

Currently I am enhancing my skills by building projects and taking part in hackathons.

Education

RV College of Engineering, Bengaluru, Karnataka — Oct 2023 – July 2027

- BE in Computer Science
- **CGPA**: 9.54

Christ Academy Junior College, Bengaluru, Karnataka — Aug 2021 – May 2023

- 12th Grade, Central Board of Secondary Education (CBSE)
- **Percentage**: 96.2 %

Christ Academy ICSE School, Bengaluru, Karnataka — Aug 2011 – July 2021

- 10th Grade, Indian Certificate of Secondary Education (ICSE)
- **Percentage**: 98.17 %

Projects

Job Recommendation System — GitHub Link

- Developed a website that allows users to upload their CV and in turn recommends them jobs based on their current skill set by leveraging techniques such as TF-IDF and cosine similarity. It also provides the user with a road-map to improve their skills and progress in their current field of work.
- Tools Used: Python, PyPDF2, spaCy, scikit-learn, streamlit, NLTK, numpy, pandas

Offline Wallet for the Blind

- Developed an offline tap-to-pay wallet using NFC and ESP32, designed for blind users. Implemented haptic-based PIN entry for two-factor authentication, enabling secure transactions without screens or internet. Integrated EEPROM-based data storage, AES encryption, and physical key support for added security.
- Tools Used: C++, ESP-IDF, ESP32-S3 microcontroller, AT24C256 EEPROM, PN532 NFC

Hand Gesture Recognition System — GitHub Link

- Developed HandSight, a hand gesture recognition system enabling touchless computer control. Implemented gesture, cursor, and ASL modes using OpenCV and MediaPipe. Designed intuitive interactions for tasks like media control and window navigation. Integrated real-time tracking for seamless user experience. Built with Python and optimized for accuracy and responsiveness.
- Tools Used: Mediapipe, OpenCV, Python, Tensorflow, CustomTkinter, PyAutoGUI

Skills

Languages: C, Python3, C++, Javascript, HTML, CSS

Technologies: Git, Google Cloud, Keras, TensorFlow, opencv, YOLOv8, React, MongoDB

Critical Skillset: Problem Solving, Critical Thinking, Decision Making

Achievements

- **Argonyx '24**: Took part in Argonyx '24 - a state level 24 Hr Hackathon organised by RV University and secured the 4th position for developing a job recommendation system project.
- **Google Cloud**: Took part in the Google Cloud Skills Boost program and earned a skill badge in the introductory and intermediate courses of Machine Learning and AI.