Shubharthak Sangharasha

I am a senior (4th year) doing Bachelors in Computer Science with specialization in Machine Learning and Artificial Intelligence. I have been exposing myself to different Programming Languages (Python, C++, C, Ruby to name a few) as well as frameworks and libraries in fields like Computer Vision (OpenCV, CNN), NLP, LLMs, LangChain, Speech Recognition, systems like TTS, Audio processing and many other ML concepts along with web & cloud technologies like AWS to be able to deploy them for real-world use.

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EDUCATION

B.E. in Computer Science and Engineering (AI / Machine Learning)

Chandigarh University, Punjab, India

2020 - Present *CGPA: 8.43*

Courses

- Deep Learning
- Natural Language Processing
- Database Management System
- Artificial Intelligence
- Machine Learning
- Data Structures
- Algorithms
- Operating System

12th (Senior Secondary), CBSE Board

NP Co-ed, Lodhi Estate, New Delhi-110002

2020 *81.5 %*

PERSONAL PROJECTS

Apsara AI - Rule Based Voice Assistant

- Designed and Developed using Python and various integrations such as gTTS, Spotify, smptlib, speech recognition etc.
- Capabilities includes understanding and action-ing upon the commands like play songs on Spotify, read news, schedule calendar meetings, connect Bluetooth, search Wikipedia, set an alarm, and send/read emails, find the phone and many more.

Dynamic Volume Controller through Hand gestures using OpenCV

- Built using Google's open-framework Mediapipe which enables to estimates 468 3D faces and hand landmarks in real-time.
- Allows to adjust the volume of the computer just by using hands.
- Enables dynamic adjustment of the volume depending on distance of person from the laptop.

Face Mask Detection Using Transfer Learning and Computer Vision

- Detects whether the person is wearing a mask or not (with multi-faces in the image enabled as well), trained using Tensorflow & MobileNetv2 architecture.
- Includes additional functionality to notify the admin through e-mail if mask enforcement is not followed and mask not work for 30 seconds.

Email Fixer using LangChain

- Streamlit app powered by LangChain LLMs to fix the language of the email

WORK EXPERIENCE

Backend Web Development Intern

Curve Tomorrow

06/2022 - 08/2022 *Melbourne, Australia*

Achievements/Tasks

- Implemented a User Log System for auditing purposes
- Added a CMS (Content Management System) to enable admins to add/edit pages without developer's involvement thereby reducing turn-around time from days to minutes
- Collaborated with team members globally

SKILLS

OpenCV, LangChain, Computer Vision, MySQL, Unix, Git, Selenium, Big Data, Ruby on Rails, PyTorch, HTML, Data Structures and Algorithms, CSS, Pandas, Web Scrapping, Flask, NumPy, AWS, NLP, Cloud Technologies, Prompt Engineering, TensorFlow

CERTIFICATES

Machine Learning

https://coursera.org/share/1294fa1e24daee886fc3f78e98f2af05

Supervised Machine Learning: Regression and Classification

https://coursera.org/share/7786d9473b22025295f2812f7c53f6d1

Advanced Learning Algorithms

https://coursera.org/share/77a638b3c1b2638ef7ba75e378320859

Linux Fundamentals

https://coursera.org/share/fac7c010104b002709d1c13a86380e29

Crash Course on Python

https://coursera.org/share/ac00638a5fb7fc2bd291014f14bd09c8

Using Python to Interact with the Operating System

https://coursera.org/share/0c0cc7ea3f177ef7edc49ea99e9d206b

Introduction to HTML5

https://coursera.org/share/dcbbd2fd87f2657d037d2d600fc73c78

PROGRAMMING LANGUAGES

Python, C++, C, Java, JavaScript, Ruby