Shubharthak Sangharasha

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CAREER SUMMARY

I'm currently pursuing a Master's in AIML at the University of Adelaide. I have strong proficiency in Python, C++, C, and Ruby, and have hands-on experience with frameworks like OpenCV, CNN, NLP, and LLMs. My skills also include Speech Recognition, TTS, audio processing, core Machine Learning concepts, and web/cloud technologies like AWS for solution deployment.

EDUCATION

2024 - Present
Expected: Aug 2026

The University of Adelaide
Masters in Artificial Intelligence and Machine Learning

2020 - 2024

Chandigarh University
B.E. in Computer Science and Engineering (AI/Machine Learning)
CGPA: 8.39

2019 - 2020

CBSE Board (NP Co-ed, Lodhi Estate, New Delhi-110002)
12th (Senior Secondary)
Percentage: 81.5%

INTERNSHIP EXPERIENCE

June 2022 -
August 2022

Backend Web Development Intern

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

PROJECTS

Apsara 2.0: Your Intelligent AI Assistant using Lang-Chain Agents
Your Intelligent AI Assistant

- **Multi-Talented** : Apsara 2.0 boasts a wide range of capabilities, including: Playing music on Spotify and YouTube, performing mathematical calculations, Send Mail, Search Mails, Save Drafts of Gmail, Search any Finance News, Creating or Checking upcoming Meetings
- **Local and Public Providers**: Choose between local LLM models O llama or public providers (like Open AI, Google) for both agentic and LLM chain behaviour, depending on preference and available computational resources

Rag Implementation
using Lang Chain

- **RAG (Retrieval Augmentation Generation):** Extract information from PDFs, Docs, or websites effortlessly with Apsara's RAG system
- Enables **both local embeddings and GPT embeddings** operating O llama and Open AI

- Developed an AI-powered website generator creates and modify websites in real-time using multiple AI providers (Google, Open-AI, Groq-AI), featuring live preview and one-click export functionality
- Implemented a user-friendly interface allowing users to generate websites from text descriptions, make modifications through simple prompts, and seamlessly integrate with various AI models for enhanced website creation

Face Mask Detection
using Transfer Learning and Computer Vision

- Detects whether a 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 administrators through e-mail if mask enforcement is not followed and mask not work for 30 seconds

SKILLS

- **Technical Skills:** Computer Vision, Data Structures and Algorithms, Web Scraping, Natural Language Processing (NLP), Prompt Engineering, Database Management System, Big Data, Command-Line Interface, Web Development (HTML, CSS), Cloud Technologies, Unix, AWS, Data Analysis, Machine Learning
- **Tools and Technologies:** OpenCV, Selenium, Ruby on Rails, Py-Torch, Flask, Pandas, NumPy, Git, Lang Chain, MySQL, TensorFlow
- **Programming Languages:** Python, C++, C, Java, JavaScript, Ruby
- **Soft Skills:** Communication, Teamwork & Collaboration, Leadership, Decision-Making, Self-Motivation, Work Ethic, Stress Management, Time Management

CERTIFICATES

- [Machine Learning](#)
- [Supervised Machine Learning: Regression and Classification](#)
- [Advanced Learning Algorithms](#)
- [Linux Fundamentals](#)
- [Crash Course on Python](#)
- [Using Python to Interact with the Operating System](#)
- [Introduction to HTML5](#)