Shubharthak Sangharasha

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CAREER SUMMARY

Currently pursuing a Master's in Artificial Intelligence and Machine Learning at the University of Adelaide, with strong proficiency in Python, C++, C, and Ruby. Experienced in OpenCV, CNNs, NLP, LLMs, speech recognition, TTS, and audio signal processing. Skilled in deploying machine learning solutions on AWS and other cloud platforms. Passionate about building scalable ML pipelines and integrating advanced algorithms into practical applications across computer vision, natural language processing, and audio domains. Open to roles in AI research and development.

EDUCATION

2024 - 2026   **University of Adelaide**
Masters in Artificial Intelligence and Machine Learning
GPA: 6.14

2020 - 2024   **Chandigarh University**
B.E. in Computer Science and Engineering (AI/Machine Learning)
GPA: 8.39

2019 - 2020   **CBSE Board (NP Co-ed, Lodhi Estate, New Delhi-110002)**
12th (Senior Secondary)
Percentage: 81.5%

EXPERIENCE

June 2022 - August 2022

Backend Web Development Intern

Curve Tomorrow

- Built and maintained scalable backend features in Ruby on Rails for internal tools and admin-facing web applications.
- Created a user activity logging system to improve auditing and simplify backend issue tracing.
- Developed a dynamic Content Management System (CMS) enabled non-technical users to edit and publish content, reducing turnaround time from days to minutes.
- Collaborated with distributed teams in agile sprints to design RESTful APIs, manage relational databases, and optimize server-side logic.
- Implemented on projects user authentication, CRUD functionality, blog engines, and MVC architecture, applying best practices in Rails development across healthcare domain.

PROJECTS

Apsara 2.5 – Vidya (Link)
Your Intelligent AI Assistant

- Built a modular backend with REST/WebSocket APIs, incorporating Gemini AI, Google services (Gmail, Calendar, Maps), and Docker-based code execution.
- Integrated real-time model switching and multi-function workflows, boosting responsiveness and flexibility in AI-driven user interactions.
- Constructed a dynamic React + Tailwind frontend supporting voice/video calls, screen sharing, chat streaming, Google Auth, and plugin management for tools (notes, Google Maps, and file viewer, etc).

Rag Implementation (Link)
Using Lang Chain

- **RAG (Retrieval Augmentation Generation):** Extract information from PDFs, Docs, or websites effortlessly with Apsara's RAG system.
- Integrated support for both local embeddings and GPT-based embeddings powered O llama and Open AI for enhanced language understanding.

AI Website Generator (Link)
Instant, AI-Powered Website Creation and Customization

- 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 (Link)
Using Transfer Learning and Computer Vision
- Detects whether a person is wearing a mask or not (with multi-faces in image enabled as well), trained using TensorFlow & MobileNetv2 architecture.
- Deployed an email notification system to alert administrators when mask enforcement is violated or a mask is not worn for over 30 seconds.

SKILLS

- **Technical Skills:** Node.js, Express.js, RESTful API Development, Authentication & Authorization (OAuth, JWT), MVC Architecture, Web Development (HTML, CSS, JavaScript), Socket.IO, Micro-Services, Unix, AWS, Computer Vision, Data Structures and Algorithms, Web Scraping, Natural Language Processing (NLP), Prompt Engineering, Database Management System, Big Data, CLI, Data Analysis, Machine Learning.
- **Tools and Technologies:** OpenCV, Selenium, Ruby on Rails, PyTorch, Flask, Pandas, NumPy, Git, LangChain, MySQL, TensorFlow, Postman, Cloud Technologies, MongoDB, Docker, Redis, Nginx, VS Code, Firebase, Prisma, GitHub Actions.
- **Programming Languages:** JavaScript, TypeScript, Python, C++, C, Java, Ruby.
- **Soft Skills:** Communication, Teamwork & Collaboration, Leadership, Decision-Making, Self-Motivation, Work Ethic, Stress Management, Time Management.

CERTIFICATES

- Machine Learning
- Tools for Data Science
- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms
- Databases and SQL for Data Science with Python
- Crash Course on Python
- Using Python to Interact with the Operating System
- Linux Fundamentals