


RAMASWAMY B

Aspiring Artificial Intelligence & Data Scientist

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Ramaswamy-B

EDUCATION

ANNA UNIVERSITY REGIONAL CAMPUS COIMBATORE

B.TECH AI & DS

BHARATH POLYTECHNIC COLLEGE

Diplomo in CSE

PROJECTS

AI-Powered Gesture Control System

Developed a computer vision-based system that recognizes hand gestures to control mouse movements without physical hardware. Utilized Mediapipe and OpenCV for real-time hand landmark detection and gesture classification.

Tech Stack: Python, OpenCV, Mediapipe, PyAutoGUI, Streamlit

BlockExam: Decentralized Proctoring & Exam Integrity Platform

Built a secure online examination platform leveraging blockchain for immutable exam records and smart contracts for candidate authentication and result validation. Integrated proctoring via AI-driven face and screen monitoring modules.

Tech Stack: Solidity, Ethereum, Python, React, Web3.js, OpenCV.

AI-Driven Structured Data Extractor

Designed and Engineered a robust tool that parses unstructured documents (PDF, TXT, HTML) and extracts structured data using NLP and regex-based patterns. Features a clean UI for rule creation and export of extracted data in JSON/CSV formats.

Tech Stack: Python, spaCy, Regex, FastAPI, React

ACHIEVEMENTS

Bit-Ai-MI Hackathon : Recognized as 'Top Performer' in a national-level hackathon, securing a place among the top 10 out of 300+ participants.

SKILLS

- **Programming Languages:** Python, C++, Java, Solidity
- **Web Technologies:** HTML, CSS, JavaScript, FastAPI, Web3.js
- **Frameworks:** PyTorch, TensorFlow, Keras, Hugging Face, OpenCV, Mediapipe, React.js, Tailwind CSS
- **Tools:** VS Code, Jupyter Notebook, Google Colab, GitHub, Docker, Postman, Streamlit, Gradio

INTERNSHIP

Networking Intern — PANTECH Tambaram | [2022]

- Completed a hands-on internship focused on computer networking concepts, network configuration, and troubleshooting.
- Worked on real-time networking projects involving LAN setup, IP addressing, subnetting, and configuring routers and switches.
- Gained practical experience in network security fundamentals and client-server communication protocols.

Hostel Management System Development Intern AURCC College

- Designed and developed a dynamic hostel management webpage to streamline room allocation, student registration, and notice board updates.
- Built the frontend using HTML, CSS, and JavaScript, and integrated backend functionalities with FastAPI and a SQLite database.

CERTIFICATIONS

- Google Summer of Code (GSoC) Contributor
- Networking Internship
- GitHub Open Source Contribution
- INTRO TO LLM- NPTEL