

Ramu R

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Education

PES University

Bachelor of Computer Science and Engineering (GPA: 7.00 / 10.00)

Expected May 2026

Bangalore, Karnataka

- **Relevant Coursework:** Data Structures and Algorithms (C), OS, Linear Algebra, Matlab, Computer Networks

Alva's Pre-University

Senior Secondary School PCMB (Percentage : 96)

Dec 2020 - April 2022

Moodabidri, Karnataka

National High School

Secondary School (Percentage : 95.36)

June 2017 - April 2020

Yeldur, Karnataka

Technical Skills

Languages: Python, Java, C, javascript, Typescript, C++,

Frameworks and Libraries: React.js, next.js, Node.js, Express.js, Tailwind CSS, Bootstrap, Tensorflow, Pandas, BeautifulSoup, PyTorch, Scikit-learn, OpenCV, Hugging Face Transformers

Databases: MySQL, MongoDB, Redis

Tools Platforms: Git, GitHub, Docker, VirtualBox, Postman, AWS

Concepts : NLP, Generative AI, LLM's , WebScraping, JWT, REST API's

Projects

AIStreamX LMS | Next.js, TypeScript, Node.js, Tailwind CSS, MongoDB, Socket.io, Redis, rtk query (.... still working on it)

- * Developed a scalable Learning Management System for educational institutions and online course creators.
- * Implemented course management with content organization, prerequisites, and enrollment restrictions.
- * Integrated real-time communication using Socket.io for instant messaging and notifications.
- * Designed role-based access control for students and instructors with dynamic content delivery.
- * Built progress tracking dashboards to monitor student performance and engagement.
- * Optimized the platform for scalability, efficiency, and customization to meet diverse user needs.

YouTube Video Translator Pro | Python, Streamlit, OpenAI Whisper, gTTS, FFmpeg, yt-dlp

- * Developed a Python-based application that translates and dubs YouTube videos into multiple Indian languages.
- * Implemented OpenAI Whisper for automatic speech-to-text transcription.
- * Integrated Google Text-to-Speech (gTTS) for generating natural-sounding dubbed audio in six different languages.
- * Built a user-friendly Streamlit web interface, enabling easy video translation with a few clicks.
- * Optimized FFmpeg-based audio-video synchronization, ensuring translated audio aligns perfectly with the original video.

Eye Controlling Keyboard | Python, OpenCV, NumPy, dlib

- * Developed a hands-free virtual keyboard controlled by real-time eye tracking and blink detection.
- * Designed a gaze detection algorithm to differentiate left and right eye movements for keyboard navigation.
- * Built a virtual keyboard using OpenCV and NumPy, allowing users to type by blinking at highlighted letters.

TypeMaster - Advanced Typing Test | HTML, CSS, JavaScript

- * Developed a fully responsive typing test application to measure typing speed (WPM) and accuracy in real-time.
- * Integrated real-time error highlighting, word-wise tracking, and dynamic cursor movement.
- * Designed a modal-based result summary displaying errors, WPM, and accuracy metrics.
- * Deployed the application on Vercel/Netlify with version control using Git and GitHub.

Hobbies

Playing and Watching Cricket

Current Affairs

Exploring New AI Tools

YouTube

Movies