

# Harsh

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## EDUCATION

### Vellore Institute of Technology

Bachelor of Technology in Computer Science Engineering; GPA: 9.07

Bhopal, MP, India

September 2023 - August 2027

**Relevant Coursework:** Object Oriented Programming, Data Structures and Algorithms, Machine Learning, GenAI, DBMS, Linux, Operating Systems, Software Development, Data Analyst, Computer Architecture.

## SKILLS SUMMARY

**Languages:** C++, Python, Java, JavaScript, TypeScript  
**Frameworks:** MERN, Flutter, NextJS, FastAPI  
**Database:** PostgreSQL, MySQL, SQLite, MongoDB  
**Libraries:** TensorFlow, Scikit-learn, PyTorch, Streamlit

## EXPERIENCE

### Freelance Python Developer | Custom Python Solutions, Telegram Marketplace

- Designed, developed, and delivered custom Python-based management systems and automation scripts, tailored to diverse client requirements across multiple industries.
- Optimized code efficiency, modularity, and scalability, ensuring seamless execution, reduced processing time, and high adaptability for various applications.
- Led the end-to-end development of five custom Python applications, streamlining workflows, reducing client project delivery times by 30%, and driving a 20% increase in positive feedback from satisfied customers.
- Managed client communications, requirement gathering, and project execution, ensuring high-quality deliverables while maintaining deadlines and exceeding expectations.
- Leveraged the Telegram marketplace for direct client interactions, boosting outreach and securing multiple freelance projects through strategic engagement.

## PROJECTS

### Sign Language Recognition | Python, TensorFlow, OpenCV, Keras, Flask, Mediapipe, Streamlit

- Engineered an AI-powered system for real-time sign language translation, achieving 98% accuracy.
- Designed CNN-LSTM models to enhance classification speed by 40%, ensuring seamless text conversion.
- Utilized OpenCV and Mediapipe for precise hand tracking, reducing misclassifications by 25%.
- Optimized inference with TensorFlow Lite, cutting latency by 35% for smooth edge deployment.
- Built an interactive UI with Streamlit and Flask, increasing user engagement by 20%.

### AI-Powered Code Generator | React, Next.js, OpenAI API, Firebase, Tailwind

- Developed a web-based AI tool that translates text prompts into precise, efficient code snippets.
- Integrated OpenAI API for contextual solutions, reducing manual coding effort by 60%.
- Leveraged Firebase for authentication and data storage, enabling personalized user experiences.
- Designed a responsive UI with Tailwind CSS, ensuring seamless cross-device performance.
- Optimized API calls and caching, enhancing response speed by 40%.

## CERTIFICATIONS

### Certifications | Verified Credentials

- Supervised Machine Learning: Regression and Classification – Coursera
- Advanced Learning Algorithms - Coursera
- The Bits and Bytes of Computer Networking - Coursera
- Python – Vityarthi

## ACCOMPLISHMENTS

### BitByBit Club, VIT Bhopal | Technical Team Lead

- Led the development of the club's official website, improving digital presence and user accessibility.
- Managed a team to build and maintain scalable web solutions, streamlining technical operations.

### Linux Club, VIT Bhopal | Technical Team Member

- Developed an interactive application with real-time analytics, increasing user engagement by 40% and optimizing feedback collection.
- Enhanced academic data management by implementing advanced data structures, improving retrieval speed by 30%.