Vaishnavi Singh Parihar

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Education

Vellore Institute of Technology — Bhopal, Madhya Pradesh — 2022-2026

Bachelor of Technology Computer Science Engineering |**CGPA:7.32**

Experience

Summer Training Program — E & ICT Academy, IIT Kanpur
(A Joint Initiative of MeitY & IIT Kanpur)
Duration: 16 June 2023 – 15 July 2023
Program: *Python for Data Science*
Completed a hands-on training program focused on **Python programming, data analysis, and visualization** using libraries like **NumPy and Pandas**, strengthening practical skills in data-driven problem-solving.

Virtual Internship — Smart Bridge & Smart Internz
Program: Google Cloud Generative AI
Duration: 05 Nov 2025 – 15 Jan 2026
Completed a virtual internship focused on Google Cloud Generative AI, gaining practical exposure to generative AI concepts and their application using cloud-based tools and workflows.

Projects

Auto Syntax - SaaS Code Editor — LIVE GITHUB

Technologies Used - *Next.js 15, TypeScript, Convex, Clerk, Tailwind CSS, Lemon Squeezy*

- Developed a full-stack SaaS-based online code editor with support for **10+ programming languages**, enabling users to write, run, and share code snippets efficiently.
- Enabled dynamic theming with **5 VSCode-inspired themes** and custom font settings, improving user personalization and accessibility.
- Supported **webhook integration** and smart output rendering (error/success states), improving runtime feedback for over 300 test cases.
- Implemented Clerk authentication and integrated **Pro-tier monetization** using Lemon Squeezy, resulting in a **functional paywall system** for gated IDE features.

OCR Image-to-Text Converter — GITHUB

- Developed a Flask web application enabling users to upload images and extract text using OCR (Tesseract)
- Implemented file handling, error checking, and result display in a user-friendly interface
- Engineered backend logic in Python (Flask, pytesseract) to process images and convert them into editable text
- Ensured reliability by handling invalid uploads and edge-case errors gracefully
- Optimized OCR accuracy and performance by pre-processing images (grayscale conversion, noise reduction, and thresholding) before text extraction

Mental Health Support Model — GITHUB

- Designed and developed a machine learning–based web application using Flask to predict depression levels and provide mental health insights.
- Utilized a Kaggle dataset for training, applied data preprocessing and feature engineering with scikit-learn, and integrated the model into an interactive web interface for real-time predictions.

Technical Skills

Programming: Java, Python, HTML, C++

Frontend: JavaScript, React, Nextjs **Backend:** MySQL, Nodejs **Developer Tool:** GitHub, Docker, AWS

Additional Information

Interest/Hobbies: Editing, yoga, sports, gamer, reading

Certification Skills: Fundamentals of AI and ML, The Bits and Bytes of Computer Network, Python Essentials, Python for Data Science, Cyber Security Analyst, Salesforce Developer, Prompt Design in Vertex AI, Git & GitHub for beginners, Google Cloud Generative AI

Global Certificate: AWS Certified Cloud Practitioner certification

Language: English, Hindi