

Yagyeshz Vishnoi

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EDUCATION

VIT Bhopal University

B.Tech in Computer Science; CGPA: 8.82

Bhopal, MP

Sep. 2022 – Present

EXPERIENCE

Technology Intern | Hawkswave Technology Pvt Ltd (Remote)

Jan. 2025 – Apr. 2025

- Engineered a **PyQt6-based desktop GUI application** displaying **Ultra-Wideband FFT data** via **real-time waterfall plots**, achieving a **60 FPS refresh rate** for enhanced data monitoring and analysis.
- Implemented **interactive data visualization features**—including **Undo/Redo** and **ROI selection**—which streamlined analysis workflows and reduced processing time.
- Collaborated cross-functionally to implement and refine **frontend features**, elevating **user experience** and ensuring seamless **GUI interactions**.
- Streamlined **file I/O operations** to efficiently load and render **large-scale FFT data** in real time, boosting application **performance** and **responsiveness by 15%**.

PROJECTS

Harvest Hub | React, Flask, AWS, Python, CNN, Random Forest, XGBoost

Dec. 2024 – Apr. 2025

- Developed a highly scalable and available **React frontend** for agriculture analytics, deployed on **AWS EC2**, with **Flask REST APIs** connecting the frontend to ML models.
- Deployed the ML models using **Flask** on **AWS Elastic Beanstalk**.
- Implemented yield prediction using Linear Regression, Random Forest, and XGBoost (9% accuracy).
- Built a crop recommendation system using KNN, SVM, and XGBoost (95% accuracy).
- Trained a CNN on 70K+ plant leaf images for disease detection (92% accuracy).

Criminal Recognition System | React, Express, Python, MTCNN, Xception, SVM

Jan. 2024 – Mar. 2024

- Programmed a simple, scalable face recognition system to identify criminals with high accuracy.
- Developed a **React** frontend for image upload and result display, supported by an **Express** backend handling REST API requests with an average **response time of 400ms**.
- Trained models on a dataset of **5,000 images** using **MTCNN** for face detection, **Xception** for feature extraction, and **SVM** for classification.
- Achieved **91% accuracy** on single-image identification and **94% accuracy** on top-3 image matches.

ASL Translator | Python, CVzone, Keras, NumPy

Jun. 2023 – Aug. 2023

- Built a real-time American Sign Language translator using computer vision and deep learning.
- Collected and labeled **7,800+ images** to train a gesture recognition model using **Google Keras**, achieving **88% accuracy**.
- Integrated **CVZone** for webcam input and real-time hand gesture detection.

ACHIEVEMENTS

TCS CodeVita Round 1: Ranked among top 1000 participants in India (out of 444K+ contestants).

Competitive Programming: Active participant with a maximum Codeforces rating of 1321.

TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript, HTML/CSS
- **Frameworks and Libraries:** React, Express, Node.js, Flask, PyQt, Bootstrap
- **Databases:** MySQL, PostgreSQL
- **Tools and Platforms:** Git, GitHub, AWS, Heroku, Linux, Visual Studio Code, Vercel, Postman
- **Certifications:**
 - AWS Certified Cloud Practitioner CLF-C02
 - HackerRank SQL - 5 Star Certification
 - Marketing Analytics (NPTEL)
 - Full-Stack Web Development (Udemy) by Dr. Angela Yu