Vaibhav Tyagi

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Education

VIT Bhopal University — Bhopal, Madhya Pradesh
BTech in Computer Science and Engineering(CGPA:8.94) — *Sep 2022-Present*

Father Agnel School — Noida,Uttar Pradesh
XII th PCM+CS(Percentage:94.8) — *Apr 2021-Jun 2022*

Father Agnel School — Nodia,Uttar Pradesh
X th (Percentage:92.6) — *Apr 2019-Jun 2020*

Technical Skills

- Languages: Python,C++,SQL(MySQL),HTML/CSS
- Frameworks: PyTorch,Tensorflow,Numpy,Matplotlib,Pandas
- Cloud & DevOps: AWS,Docker,CI/CD

Work Experience

Digital Marketing Intern|*IIT Bombay* — December 2022

- Assisted in planning and executing digital marketing campaigns to boost event awareness and engagement across social media platforms.
- Leveraged personal networks and social media platforms to encourage registrations and increase event participation.
- Actively shared promotional content and registration links across social channels to expand outreach.

PR Team Member|*NULL Chapter VIT Bhopal* — Feb 2024-Oct 2024

- Played a key role in the club's outreach and sponsorship efforts by conducting targeted cold emailing campaigns to secure event sponsors.
- Established and maintained professional communication with potential sponsors, resulting in successful partnerships.
- Contributed to overall event planning and promotion, strengthening the club's presence and engagement within the campus community.

Projects

Hand Face Rapid Response System(HFRRS)|*Python,Tensorflow,OpenCV* — Feb 2024-May 2024

- Engineered an AI-powered recognition system with 95% predictive accuracy for real-time gesture and facial expression detection.
- Integrated 5+ web browser features to enhance user experience and interaction.
- Deployed an automated **email alert system** triggered by emergencies, reducing response time by 40%.
- Trained deep learning models using TensorFlow with over 100,000 labeled images, ensuring high precision.
- Enhanced system performance, achieving a 30% improvement in real-time processing speed.

SafeScan.ai|*XGBoost,Scikit,Python,Tensorflow* — Jan 2025-Feb 2025

- Developed an XGBoost-based breast cancer detection model using the **sklearn dataset**, achieving 98.24% accuracy in classifying malignant vs benign tumors.
- Curated feature selection process employing heatmaps for correlation analysis and feature importance scoring, enhancing model with **99.1% sensitivity** in identifying true positive malignant tumors.
- Streamlines the machine learning pipeline for clinical diagnostics using Python, reducing model training time by 40% through ameliorate hyperparameter configurations and efficient data preprocessing techniques.

Certifications

- ML Specialisation by DeepLearning.ai
- EDA with Python by freeCodeCamp