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,JavaScript
- Frameworks: PyTorch,Tensorflow,Node.js, Express.js, React.js, MongoDB (MERN stack)
- Cloud & DevOps: AWS,Docker,CI/CD

Projects

FuberRide|_MERN,REST_   Aug 2025-Sep2025
- Developed a full-stack MERN (MongoDB, Express.js, React.js, Node.js) application to facilitate seamless and efficient cab bookings.
- Designed an intuitive user interface using React.js for easy ride booking, cancellation, and real-time status updates.
- Implemented RESTful APIs with Express.js and Node.js to manage bookings, user authentication, and ride tracking.
- Integrated MongoDB for scalable and flexible data storage of user profiles, ride details, and driver information.
- Ensured responsive design and cross-device compatibility to enhance user experience on both desktop and mobile platforms.

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.
- Optimized model inference speed and reduced latency by 30% through efficient algorithm implementation and hardware acceleration techniques.

TrendFlixRatings|_React,Appwrite_   Aug 2025-Sep 2025
- Developed a dynamic web application using React for building interactive user interfaces and managing state efficiently.
- Integrated Appwrite backend services for user authentication, database management, and real-time data synchronization.
- Implemented movie ratings and review features allowing users to rate and comment on films with seamless cloud storage.
- Designed responsive and visually appealing UI using CSS and HTML, ensuring consistent experience across devices.
- Optimized frontend performance and usability with React best practices and Appwrite SDK capabilities, enhancing user engagement.

Co-Curriculars

- Cleared Dr. G Vishwanathan codeathon (top 10%) by solving algorithmic challenges in C++.
- IIT Madras Malware Safety Hackathon: Cleared 2 rigorous rounds among 500+ participants by developing a malware detection bot and increasing the SMOTE score using synthetic data augmentation.
- Certifications: Machine Learning Specialisation by Deeplearning.ai ↖, Enterprise Grade AI by IBM ↖