Vaibhav Tyagi

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EDUCATION

VIT BHOPAL UNIVERSITY **Bhopal, MP**
Bachelor of Technology in Computer Science Engineering(CGPA:8.94) Expected 2026

- Awards: G Vishwanathan codeathon (top 10%).

FATHER AGNEL SCHOOL **Noida, UP**
XII th Standard (Percentage:94.8) 2021-2022
Xth Standard (Percentage:92.6) 2019-2020

- Awards & Accolades: Director's Award for best performance overall; Sports Minister

TECHNICAL SKILLS

- Languages: Python,C++,SQL(MySQL),JavaScript
- Web/Mobile: HTML/CSS,React.js,Node.js,React Native,MongoDB
- Cloud & DevOps: AWS,Docker,CI/CD

WORK EXPERIENCE

HEALTH COMPASS **Remote**
React Native Developer Jan 2025-Apr 2025
Skills: React Native, TypeScript, IOS dev

- Engineered and optimised a cross-platform **mobile application** using React Native, improving performance by **30%**.
- Developed and managed biometric authentication, increasing login security and reducing unauthorized access attempts by **50%**.
- Designed and integrated a splash screen, improving app launch time by **25%** for a smoother user experience.

PROJECTS

ACCESS MATE **VIT BHOPAL UNIVERSITY**
Link: ↖ Jan 2025
Skills: React Native,Expo

- Engineered a secure biometric authorization tool, **"AccessMate,"** using React Native and Expo, providing a robust and convenient alternative to traditional password-based authentication.
- Integrated native device biometrics **(Fingerprint/Face ID)**, demonstrating proficiency in platform-specific SDKs and ensuring a seamless, high-security user experience.
- Developed the application using the **Expo framework**, leveraging its SDK for local authentication and handling fallbacks for devices without biometric support, showcasing efficient cross-platform mobile development.

HFRRS(HAND FACE RAPID RESPONSE SYSTEM) **VIT BHOPAL UNIVERSITY**
Link: ↖ Feb 2024
Skills: Python, OpenCV, TensorFlow, Real-Time Systems, CNN

- Developed a real-time computer vision system using CNNs and deep learning **(TensorFlow/Keras)**, achieving **95% accuracy** in predicting gestures and facial expressions.
- Engineered a **scalable pipeline** with OpenCV for frame processing, TensorFlow for model training, and Matplotlib for performance visualization.
- Designed for multi-domain use cases, including security surveillance, assistive technology, and HCI, improving accessibility and user safety.

ADDITIONAL INFORMATION

- Languages: Fluent in Hindi (native), Full Professional Proficiency in English
- Certifications: MERN stack mastery by Meta(↖); **83%** in Cloud Computing by IIT Kharagpur(↖); SQL Advance by HackerRank(↖).