

# Vaibhav Tyagi

Phone: +91 7048928574 | Email: [vaibhav707tyagi@gmail.com](mailto:vaibhav707tyagi@gmail.com) | [Linkedin](#) | [GitHub](#)

## Skills

- **Languages** - C++, Python, HTML, CSS, JavaScript, Java.
- **Tools** - Pandas, TensorFlow, SQL, MongoDB, Postgres, Excel, PowerBi, React Native.

## Education

**VIT Bhopal University** (Expected May 2026)  
BTech Major in Computer Science and Engineering

Bhopal, Madhya Pradesh  
Cumulative GPA: 8.92/10

**Father Agnel School** (Jul 2022)  
12<sup>th</sup> Standard- CBSE(Central Board of Secondary Education)

Noida, Uttar Pradesh  
Percentage: 94.8%

**Father Agnel School** (Jul 2020)  
10<sup>th</sup> Standard- CBSE(Central Board of Secondary Education)

Noida, Uttar Pradesh  
Percentage: 92.6%

## Work Experience

**Health Compass(React Native Developer Intern)**

Jan 2025-Ongoing

- Engineered and optimized a **cross-platform mobile application** using React Native, improving performance by **30%**.
- Focused on **iOS development**, ensuring seamless functionality and achieving **99.9% crash-free sessions**.
- Implemented **10+ form validations**, enhancing user input accuracy and reducing errors by **40%**.
- Designed and integrated a **splash screen**, improving app launch time by **25%** for a smoother user experience.
- Developed and managed **biometric authentication**, increasing login security and reducing unauthorized access attempts by **50%**.

## Projects(5+)

**Hand Face Rapid Response System(HFRRS)**

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 system performance, achieving a **30% improvement in real-time processing speed**.

**Malware Detection Analysis for IIT Madras Hackathon**

Jul 2024-Sep 2024

- Successfully identified **malware and benign software** through an in-depth analysis of detection techniques, achieving **92% accuracy** on the test dataset.
- Developed a **machine learning model** leveraging advanced algorithms, improving detection accuracy by **15% compared to baseline models**.
- Processed and analyzed a **dataset of 10,000+ samples**, ensuring effective recognition of **50+ malware types** across different attack vectors.
- Advanced to the **final round** of the hackathon, ranking in the **top 5%** among **100+ participating teams**, demonstrating the effectiveness and potential impact of the solution on cybersecurity.

**Technical Stack:** Python, Machine Learning, Data Analysis.

## Achievements & Extracurriculars

- Shortlisted for the **Services Selection Board (SSB)**, indicating strong potential for defense services.
- 5-star rating in **C++, Python, and SQL** on HackerRank, with **8 certificates** earned.
- **Attained an advanced black belt rank in martial arts**, mastering **100+ complex techniques** and demonstrating **10+ years of discipline, strategy, and physical endurance**.

## Notable Certifications(40+)

- **CS50 Harvard**: Completed Harvard's intro to computer science with a score of **92%**.
- **Programming in Python by Meta**: Certified in Python programming with a score of **95.8%**.
- **Cloud Computing**: Earned certification from IIT Kharagpur, ranking in the top **5%**.