# SAMIUL HAQUE AZMI

Software Engineer | C++, Python, Web Dev, AIML and Computer Vision

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## Summary

An aspirational *third-year* Computer Science and Engineering student at VIT Bhopal, with a strong passion for *AI-ML* and other emerging technologies like *Quantum Computing*, and a keen interest in **Research & Development**. I am a dedicated learner with a solid grasp of *Problem Solving, Data Structures and Algorithms (C++), Object-Oriented Programming (C++, Python, Java), and Database Management.* I'm actively upskilling in **Software Development**, **AI/ML**, and **Computer Vision**, with a strong desire to contribute to **impactful research** and **projects**.

## Skills

Programming:

C++ : DSA & OOP · Python & Java : OOP · Database Management · Mathematics · Web Developement (Basic) · HTML · CSS · JavaScript

AI-ML & Computer Vision: YOLO Framework & Computer Vision · Annotation · Pytorch & Tensorflow · CNN · Prompt Engineering & Gen. AI

## Projects / Experience

### VIT Bhopal
Bhopal

AI-Based Generalisable Plant Leaf Disease Detection & Recognition
10/2024 - 01/2025

**Computer Vision (Object Detection)**

- Successfully completed the project with *strong results* and **co-authored** the **research paper**.
- Developed custom Model architecture following a dual type ie. *Primary (Training)* and *Secondary (Cross Verification)* Dataset approach.
- Training Dataset annotated with two distinct labels- Plant and Disease, helping in cross verification and generalizability.
- **Outcome :** Successfully, the model detected **known** disease in **unknown** but **similar** plant.
- **Tech stack** : YOLOv8, PyTorch, Roboflow (Annotation), Python 3.11, Matplotlib

### VIT Bhopal
Bhopal

AI-Based Reading Assistance for Visually Impaired
02/2025 - 04/2025

**Computer Vision (Optical Character Recognition) & Text to Speech**

- Completed the project with great *results & accuracy* and **co-authored** the **research paper**.
- Designed custom OCR, exploring different architectures and enhancement techniques.
- Studied and tested *Hand Written Character Recognition* and *Context addition*.
- **Outcome :** Model *executed successfully* & achieved **87.93% accuracy** with **20 epochs**.
- **Tech stack** : *YOLOv8, Custom* OCR CNN (PyTorch), Google TTS, Python 3.11, Matplotlib.

### VIT Bhopal - SolVIT'25 Hackathon
Bhopal

Citizen-Municipal Communication Portal
03/2025

**Front-End Web Development**

- Led a team of 5 first-time developers in building a web front-end for a Citizen-Municipal Corporation Communication Portal.
- Designed and implemented responsive UI components using HTML, CSS, and JavaScript to facilitate efficient citizen interaction with municipal services.
- Ideated a scalable civic-tech platform to improve transparency and service request handling; backend development planned as future work.
- Successfully cleared the Ideation Round, placing 13th among 130 participating teams and advanced to the second round of the hackathon.
- Focused on collaborative learning, real-world problem solving, and introducing teammates to agile development and civic engagement tech.
- **Tech Stack** : HTML5, CSS3, JavaScript

## Certifications

C++ — *Data Structure and Algorithm in C++* from **LearnYard**

Introduction to Machine Learning — **NPTEL (IIT Madras)**

Python , Java — *Python Essentials and Programming in Java* from **Vityarthi**

AI & ML — *Fundamentals of AI and ML* from **Vityarthi**

## Education

### Vellore Institute of Technology, Bhopal
Bhopal, India

Bachelor's in Computer Science & Engineering | CGPA: **7.85** / 10
09/2023 - 05/2027

# Languages

**English** Proficient                **Hindi** Native                **Arabic** Beginner

# Volunteering / Extracurricular Activities

## VIT Bhopal
Co-Lead, Event Management Team, Metaversity Club                01/2025 - Present

Leading and collaborating with club members to *manage* and *organize* events, ensuring *seamless execution*. Demonstrated **proactivity**, *problem-solving ability*, **collaboration**, **resource management,** and **diligence** in fulfilling responsibilities and contributing to the club's objectives.

## International Indian School Buraidah, KSA
Scout  and Volunteer, Bharat Scouts and Guides                05/2018 - 04/2019

Helped in building **confidence** and **leadership.** Learned valuable *life* and *leadership skills*, participated in **team building**, *outdoor adventure & service*. Attended various *scouts camps* and demonstrated **leadership** qualities by serving as **patrol leader.** Actively participated in various *scouting activities* and *volunteered* for *social* and *environmental* causes.

# Strengths

### Solution Oriented & Resilient
I am a *resourceful* and *persistent* individual with a strong ability to troubleshoot, resolve challenges, and drive results, as evident by *Experiences* and *Projects*.

### Collaborative & Responsible
A team player, valuing my team and communication.
Led diverse teams of students and successfully executed and delivered in *Events* and *critical projects*.

### Adaptable & Quick Learner
Able to grasp new concepts with ease and adaptable to the new tech updates, ensuring minimal disruption to workflow and maintaining project schedules and standards. I thrive in dynamic environments and make challenges a learning opportunity.

### Curiosity
Interested in "why" and "how" behind. Always curious to explore, learn more, keep up with the advancing technology and look for better solutions to problems.

# Awards

### CBSE X SCHOOL TOPPER 2020
Recipient of **CBSE X School Topper Award** at International Indian School, Buraidah, KSA

# Interests

### Sports
Passionate about maintaining physical health. Particularly interested in football and swimming. Participated in various school competitions.

### Photography
As a nature lover, I enjoy capturing magnificent moments. Occasionally, I do astrophotography too.