SYED HABĪB HAIDER

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Professional Summary

- Innovative **Computer Vision Engineer with 2 years of experience** developing and implementing cutting-edge algorithms. I develop **SOTA** models that are **CPU** friendly. I love Objection Detection and Instance Segmentation. Live and superfast inferences on your palm is what I make possible.

- As a **MERN** stack developer, I can build web applications efficiently while adopting the **latest frameworks**. I am very confident about my FrontEnd Development Skills.

Projects and Achievements

1. **Intelligent Road Quantification System**

   - **Accomplished**: Optimized a computer vision pipeline for pothole detection on roads.

   - **As Measured By**: Conducting a comparative analysis of many models, modifying YOLO architecture, and embedding an HMM model.

   - **Resulting In**: Achieved over 60% mAP and high inference speed, ~**62 FPS** on CPUs, with successful object counting.

2. **WonderBikes — A MERN STACK PROJECT**

   - **Accomplished**: Developed an intuitive and aesthetically pleasing online motorcycle rental platform, with CRUD operations & other features.

   - **As Measured By** Building a dynamic React+Vite application as part of the **WonderBikes** MERN Stack project with NoSQL BackEnd, focusing on seamless user experience and responsive design.

- **Resulting In**: A robust and scalable web app that enhances customer engagement and simplifies the rental process.

Work Experience

→ **Computer Science Teacher** (2022 – 2023)
- **At:** British School System, Lahore
- Developed and implemented assessments to measure student learning outcomes and track progress.

→ **Computer Vision Lab Assistant** (2022 – 2024)
- **At:** University of Management and Technology, Lahore
- Under the Supervision of Dr. Muhammad Azeem Javed, **Director Robotics and Vision Lab**.

Technical Skills

→ **Microsoft Office** — 3 years
→ **PyTorch + PaddlePaddle** — 2 years
→ **Machine Learning** — 2 years
→ **Computer Vision** — 2 years
→ **MERN Development** — 3 years

Others:

→ Ability to Work in a Team.
→ Ability to Co-ordinate and work under a fast environment.
→ Robust at Research and Development.
→ Very Fond of Reading History Books.
→ Confident in Urdū, English, Arabic and Bilingual Presentations.

Education   BS(**AI**) | CGPA: 3.1 / 4.0 | UMT

British School System
High school or equivalent
Computer Science, Secured 1016 / 1100 — A+ Grade
Lahore, Pakistan
2016 to 2018

Punjab College of IT
Associate
Intermediate of Computer Science (ICS), passed with flying colours through 100% scholarship
Canal Rd, Lahore, Pakistan
2018 to 2020