



Malik Ihtasham Asif

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ABOUT ME

A motivated individual with expertise in machine learning, cybersecurity, and distributed systems, seeking opportunities in cutting-edge research or industry roles. I aim to leverage my technical skills and research experience to contribute to innovative solutions while continuously enhancing my knowledge and professional growth.

WORK EXPERIENCE

 **PAKISTAN ORDINANCE FACTORY** – WAH CANTT, PAKISTAN

INTERN – 08/07/2019 – 02/09/2019

 **FWO** – ABBOTTABAD, PAKISTAN

INTERN – 03/06/2024 – 15/07/2024

EDUCATION AND TRAINING

17/02/2022 – 17/01/2025 Abbottabad, Pakistan

MS(CS) COMSATS University Abbottabad

Final grade 3.92 | **Thesis** Mitigating Data Poisoning Attack in FL based Edge-IoT Systems

14/07/2016 – 13/10/2020 Haripur, Pakistan

BSSE University of Haripur

Final grade 3.12 | **Thesis** Fire Detection and Prevention System

10/06/2013 – 15/06/2014 Haripur

FCS Bright Vision Model College

LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s): **ENGLISH**

SKILLS

Digital Marketing | Graphics Design | Web Development | HCNA | CYBER SECURITY

PROJECTS

11/06/2023 – 17/01/2025

Mitigating Data Poisoning Attacks in Federated Edge-IoT Systems

- Developed a novel approach combining clustering and robust aggregation to detect and mitigate data poisoning attacks in federated learning environments.
- Enhanced the robustness and security of models in resource-constrained edge-IoT systems through rigorous experimentation and analysis.

14/01/2020 – 10/10/2020

Fire Detection and Prevention System

- Designed and implemented a Fire Detection and Prevention System using Arduino and fire and gas sensor, enabling real-time fire detection and automated safety responses.
- Integrated sensor-based monitoring and alert mechanisms to enhance safety and minimize fire-related risks.

HOBBIES AND INTERESTS

Chess, Travelling, Photography, Reading, Cricket, Technology



AWARDS AND CERTIFICATIONS

Merit-Based Scholarship for Academic Excellence- COMSATS

Microsoft Office Specialist- Microsoft

Foundation of Cyber Security-Google

Play It Safe: Manage Security Risks-Google

Technical Support Fundamentals- Google

Assets, Threats, and Vulnerabilities- Google

Connect and Protect: Networks and Network Security - Google

The Bits and Bytes of Computer Networking-Google

Wordpress - KPITB

Digital Marketing - KPITB