

# Muhammad Ahmed Ahsan

Lahore, Pakistan ✉ engr.ahmed46@gmail.com ☎ +92-321-9977607 🌐 [www.linkedin.com/in/muhammad-ahmed01/](http://www.linkedin.com/in/muhammad-ahmed01/)

## EXPERIENCE

**IT Trainee Officer** (Software Development and Integration Unit) **June 2024 – Present**

**MCB Islamic Bank Ltd., Lahore, Pakistan**

- **Working in a Collaborative team of 60+ Software Engineers**
- Develop and maintain banking applications using Java, ensuring they meet business requirements and function effectively within the bank's ecosystem.
- Optimize and manage PL/SQL queries to enhance database performance, ensuring data integrity and efficient processing of banking transactions.
- Support the NINTEX POC sessions, contributing technical expertise to help integrate and automate workflows within the core banking system.
- Regularly update and maintain existing software applications, addressing bugs, implementing new features, and ensuring ongoing system stability and performance.
- Upgrading and Retrofitting FLEXCUBE screens from version 12 to version 14, ensuring smooth integration, system-wide compatibility, and an optimized user interface. This involves leveraging Oracle Database for efficient data management and performance optimization, contributing to improved operational functionality.

**Junior Software Engineer** (Internship)

**June 2023 – August 2023**

**Aspire Analytica, Lahore, Pakistan**

- **Developed live communication website and made advancements in company's website.**
- Enhanced infrastructure of website and incorporating version control with suitable Visual Studio Code Extensions.

**Switching and Networking Engineer** (Internship)

**July 2022 - August 2022**

**PTCL, Lahore, Pakistan**

- Regular maintenance of the network for smooth operation and monitor network performance, Troubleshoot issues when needed.
- Check for faults occurred by the NE's. Helped in shifting OLT's and its maintenances.
- Maintaining security measures to protect the network from unauthorized access, cyber threats, and other security breaches.
- Worked in GPON department and gained insights about fiber optical network.

**Teacher** (Grade 9-12)

**September 2022 – May 2024**

**Lahore, Pakistan**

- Standard Group of Institutions, Lahore

## EDUCATION

**Bachelor of Electrical Engineering (Specialization: Computer Engineering)**

FAST NUCES • Lahore • 2020-2024

**F.Sc Pre Engineering**

Punjab College • Lahore • 2018-2020

**Matriculation (Majors: Computer Science)**

L.D.A Model High School • Lahore • 2016-2018

## PROJECTS

**Cotton-Plant Disease Detection Using Machine Learning and Prescribing its Cure**

- Created a Deep Learning (CNN) Model and integrate it in Raspberrypi-4 to predict the disease, prescribe its Cure and finally rendered the plant's leaf health status along with it's image on Website Developed on MERN Stack.

## Behavioral Risk Factor by Tobacco Using Machine Learning

- Applied machine learning algorithms to predict behavioral risk factors, achieving high accuracy.
- Conducted data preprocessing, feature engineering, and exploratory data analysis (EDA) enhanced performance using k-fold cross-validation, Lasso, Ridge, Principal Component Analysis (PCA).

## Driving License Management System

- Developed using C++ (OOP)

## Dummy Twitter Network

- Developed using C++ (OOP and Data Structures)
- Applied advanced C++ techniques, optimizing array management and leveraging efficient data structures.

## Digital Clock System

- Created a dynamic Clock Mechanism in Proteus, and implemented on Hardware.

## Automatic Door Locking System

- Developed a door locking System in Micro-Assembly Language using sensors integration and add the functionality of fingerprint unlock.

---

## SKILLS

**Soft Skills:** Excellent Communication (English, Urdu), Marketing, Public Relations, Team Player, Self-Motivated Individual, Dynamic, Leadership Qualities.

**Technical Skills:** Machine Learning, Deep Learning, Java, Node.js, Express.js, MongoDB, SQL, PL-SQL, React.js, C++ Language (OOP, DSA), JavaScript, Python-3, C-Language, Micro-Assembly language, Arduino Programming, Raspberry-Pi Programming, ASP.net, Spring-Tool-Suit4, Toad, FlexCube-14, Microsoft Office.

---

## AWARDS AND SCHOLARSHIPS

100% Funded Final Year Project in Machine Learning | PEC (Pakistan Engineering Council) | FAST NUCES | Lahore | 2023-2024

2<sup>nd</sup> Position Winner in Final Year Project Competition on Job Fair | FAST NUCES | Lahore | 2023-2024

75% Funded Merit Based Scholarship | Punjab College | Lahore | 2018-2020

---

## CERTIFICATIONS

### Advanced SQL

Hacker Rank (Link: [Advanced SQL Certificate](#))

### Neural Network (Deep Learning)

IEEE FAST-Lahore

### MERN Stack Developer

UDEMY (Link: [MERN Stack Development Certificate](#))

### Fundamentals of Digital Marketing

---

## ACTIVITIES INVOLVEMENTS

---

### SOFTEC

FAST NUCES, Lahore, Pakistan • Officer • September 2022 – April 2024

- Orchestrating a team of over 400 members for tech event.
- Successfully curated 19+ competitions, drawing 2200+ participants from across Pakistan.
- Achieved a remarkable footfall of 14,000 attendees.

### Artificial Intelligence Community

FAST NUCES, Lahore, Pakistan • Team Head • March 2023 - April 2024

- Managed team and Contestants.
- Coordinated on-site registration logistics.
- Collaborating with external stakeholders, including academia, industry experts, and other organizations, to foster partnerships.

### Future Fest

Team Registrations • January 2024 - January 2024

- Managed a registration desk team at Future Fest, processing 2,000+ participant registrations.
- Coordinated on-site registration logistics, integrating 6,000+ global attendees into Future Fest's dynamic atmosphere.

### NasCon'23

FAST NUCES, Islamabad Pakistan • February 2023 - March 2023

- Conducted NasCon'23 campaigns at FAST NUCES Lahore campus, securing 400+ participant registrations.
  - Lead Lahore delegation to NasCon's three-day event in Islamabad, showcasing effective coordination and leadership.
  - Boosted NasCon's visibility on Social Media as well, contributing to the event's overall success.
-