

Atta Muhammad

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Professional Summary

Python Developer with a strong academic background and 7+ years of experience in teaching, research, and software development. Proficient in designing and implementing backend systems, automation workflows, and data-driven applications using Python, SQL, LangChain, and modern frameworks such as FastAPI and Django. Led certified programming courses and hands-on workshops, equipping learners with market-driven development skills. Passionate about solving real-world problems using clean, scalable code and integrating AI tools for automation and optimization.

Professional Experience

Assistant Professor

Department of Artificial Intelligence, Quaid-e-Awam University of Engineering Science and Technology

April 2017 – Present | Nawabshah, Pakistan

- Designed and taught undergraduate-level courses in Python, software engineering, and AI.
- Led workshops and certification programs on Python development and automation.
- Supervised student projects involving data pipelines, chatbots, and web applications.
- Integrated research and practical applications, including LLM-powered solutions.

Lecturer

Quaid-e-Awam University of Engineering Science and Technology

March 2016 – April 2017

- Taught courses on programming and telecommunication engineering.
- Conducted hands-on labs and trained students in technical writing and development.

Functional Team Lead

Sukkur IBA

July 2013 – March 2016

- Developed web-based solutions including Sukkur IBA Online Testing Service (SOTS).
- Built a complaint management system and graduate directory platform using C# and SQL.

Software Engineering Intern

Sukkur IBA

Jan 2012 – June 2013

- Participated in the development of ERP modules and internal university systems.

Projects

LLM-Based QUEST Rule Book Chatbot (2021)

Python, Langchain

- Created a chatbot interface that answers legal queries using document parsing and LLMs.

Talk-show Detection System (2015)

Java, WEKA

- Developed a system that identifies talk shows in videos using audio-visual and grammatical patterns.

Sukkur IBA Online Testing Service (SOTS) (2014)

C#.NET, SQL

- Built an online recruitment testing portal for university-wide use.

Technical Skills

Languages: Python, Java, C#.NET, MATLAB, Julia, C++, C

Frameworks & Tools: FastAPI, Django, Langchain, Flask, PyCharm, Visual Studio, Git

Databases: SQL, MongoDB, PostgreSQL

Others: Docker, REST APIs, MS Office, LaTeX, Zotero, GitHub, GitLab

Cloud/Deployment: Streamlit Cloud, Heroku, Render (basic exposure)

Education

MS in Computer Science

Sukkur IBA University

GPA: 3.5/4.0 (Silver Medalist)

Thesis: Automated talk-shows detection using machine learning

BE in Telecommunication Engineering

Sukkur IBA University

GPA: 3.0/4.0

Thesis: ICI reduction in OFDM systems using frequency offset reduction

Certifications & Awards

- **Silver Medalist** – MS Computer Science (Second Position)

- **PM Scholarship Program** – Full tuition waiver
 - **Sindh Endowment Scholarship** – Awarded during undergraduate studies
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Publications

- *Temperature and strain sensing with hybrid interferometer*, 2021
- *Video genre identification using clustering-based shot detection algorithm*, 2019
- *Content-based identification of talk show videos using audio visual features*, 2016