Fatima Shafiq

⌖ Lahore, Pakistan   ✉ fatima.shafiq1999@gmail.com   ☏ +92 341 8678051   **in** Fatima Shafiq

Summary

Driven AI/ML engineer with a strong foundation in deep learning, computer vision, and NLP. Proficient in Python, TensorFlow, and PyTorch, with hands-on research and project experience. Eager to pursue a PhD in Data Science or Artificial Intelligence to advance impactful research and innovation

Education

University of Engineering and Technology   *Sept 2022 – May 2024*
M.S. in Computer Science, Artificial Intelligence 3.58—4 cgpa

University of Engineering and Technology   *Sept 2018 – Apr 2022*
B.S. in Computer Science 3.40—4 cgpa

Narowal Public School and College   *Apr 2014 – Apr 2018*
Secondary and Intermediate A+ Grade

Experience

Industry Experience

Business Account Manager - Remote   *Richardson TX, USA*
Xovolt xovolt.com ↗   *Nov 2024 – May2025*

- Managed client acquisition and engagement through LinkedIn and freelance platforms for projects in Python, MERN stack, and Ruby on Rails.
- Coordinated with development teams to define scope and deliverables for web development, project management, and business analysis tasks.
- Oversaw client communications, proposal creation, and ensured alignment between technical teams and client objectives.

Associate Business Developer - Remote   *Lahore, Pakistan*
ZAPTA Technologies Pvt.ltd.   *zaptatech.com* ↗   *Sep 2023 – Oct2024*

- Generated leads and secured projects through LinkedIn and freelancing platforms for Python development, MERN stack, and software solutions.
- Collaborated with technical teams to scope projects in web development, project management, and business analysis.
- Managed client communication, proposal drafting, and initial project planning to align business needs with technical execution.

Intern Business Developer - Remote   *Forney, TexaS, USA*
Gutech International LLC.   *gutint.com* ↗   *Jun 2023 – Aug2023*

- Identified and engaged clients for AI, MERN stack, and web development projects through targeted outreach.
- Collaborated with tech teams to prepare proposals aligned with client needs and technical scope.
- Supported lead generation and conversion using CRM tools and data-driven strategies.

Academia

Teaching Fellow — Institute of Data Science   *Lahore, Pakistan*
University of Engineering & Technology   *Dec 2024–Present*

- Teaching core undergraduate courses: Discrete Mathematics, AI, Data Structures, Programming Fundamentals (PF), OOP, and DBMS.
- Conducting hands-on lab sessions to reinforce theoretical concepts through practical implementation.
- Mentoring students in both coursework and lab work to strengthen problem-solving and programming skills.

Teaching Assistant — Institute of Data Science *Lahore, Pakistan*
University of Engineering & Technology *Sep 2024 – Dec 2024*

- Taught Discrete Mathematics with a focus on Data Science applications.
- Conducted lab sessions for AI, Introduction to data science, AICT and Database Management Systems (DBMS).
- Supported course delivery through hands-on instruction and student mentoring.

Teaching Assistant — Department of Computer Science *Lahore, Pakistan*
University of Engineering & Technology *Aug 2023 – Aug 2024*

- Conducted lab sessions for AI, OS, Computer Networks, and Assembly Language.
- Assisted students with practical tasks and reinforced key technical concepts.
- Provided technical support for labs and one-on-one student guidance.

Lecturer *Lahore, Pakistan*
Govt. Islamia College Railway Lines *Jan 2023 – Aug2024*

- Taught core CS subjects: DBMS, Networking, and Operating Systems to FSc and ADP students.
- Designed practical labs and assignments to reinforce key technical concepts.
- Mentored students to strengthen problem-solving and foundational CS skills.

Publications

Extreme Heat Prediction through Explainable AI and Deep Learning May 2025
MS Thesis, *Fatima Shafiq*, Journal : Plos One
Click to see. ↗

HowAICanFacilitate Continuous Education and Skills Development for Adults throughout Their Careers May 2025
Fatima Shafiq, Journal : Review of Applied Management and Social Science
Click to see. ↗

Projects

Extreme Heat Prediction through Explainable AI and Deep Learning *Apr 2023 - Mar 2024*
MS Thesis Project

- Preparation of XWeather dataset by collecting and pre-processing 5 years of meteorological data (2018-2022) sourced from PMD, which includes label encoding and scaling of numerical features.
- Proposed a framework utilizing three deep learning models including ANN, CNN,and LSTM to predict extreme heat events, with LSTMachieving the highest accuracy in forecasting these events.
- Applied SHAP and LIME XAI to extract high impact features for precise heat event prediction. By pinpointing and justifying the most critical features, I effectively filter out low-value data, significantly boosting model accuracy and reliability.
- Tools : Python, TensorFlow, XAI, DL

An IoTBased Smart Lab with Facial Faced Attendance System *Mar 2021 - Mar 2022*
BSc Final Year Project

- Developed an IoT-based smart lab with facial recognition for automated student attendance.
- Integrated web and mobile apps to control both electronic and non-electronic lab elements such as lights, fans, doors, windows, and curtains.
- Built using Django, Python, and React for seamless backend and frontend interaction.
- Tools Used: Django, Python, React

Technologies

Programming Languages: Python, C++, SQL.

Algorithms : ML, DL, Explainable AI, SHAP, LIME.

Libraries & Tools : NumPy, Pandas, Scikit-learn, OpenCV, Git, Docker, Matplotlib.

Tools : Dev C++, Visual Studio, Latex, MS Office, Anaconda.

Scholarships

- **Peef Master Level Scholarship:** Merit Based Scholarship.

- **Ehsas Scholarship:** Bachelor Level Merit Based Scholarship.

Achievements & Certifications

- **Generative Artificial Intelligence in Research, Teaching, and Professional Development** – Issued by QEC UET

- **Enhancing the Quality of Programs through Micro-teaching** – Issued by UET

- **ITEC Master Research Poster Presentation** – Issued by UET

- **Second Position in Final Year Project Competition 2022** – UET Lahore

- **Runner-up in Badminton and E-Gaming** – Sports Gala 2022, UET Sports Society

- **Certificate in English Speaking** – Smart Start (2019)

- **Beginner Graphic Designer** – GDC Batch 2 (2022)

Courses

- Lead Generation Foundation by LinkedIn.

- Learning LinkedIn Sales Navigator by LinkedIn.

- Beginner Graphic Designer from Codator UET.

- English Speaking by Smart Start.

Languages

- English

- Urdu

Recommendations

- **Prof. Dr. M. Shoaib** – DEAN of Electrical Engineering at University of Engineering and Technology, Lahore. **Email:** shoaib@uet.edu.pk

- **Prof. Dr. Shazia Arshad** – Director at Institute of Data Sciences, UET Lahore. **Email:** shazia.shoaib@uet.edu.pk

- **Dr. Amna Zafar** – Associate Professor at Department of Computer Sciences, UET Lahore. **Email:** amnazafar@uet.edu.pk

- **Dr. Khaldoon Khurshid** – Associate Professor at Department of Computer Sciences, UET Lahore. **Email:** skhaldoon@gmail.com

- **Dr. Faiza Iqbal** – Assistant Professor at Institute of Data Sciences, UET Lahore. **Email:** faizaiqbal@uet.edu.pk