

SHAHZEB FAISAL

📍 Lahore, Pakistan

📞 +92 302 0418510

✉️ l215649@lhr.nu.edu.pk

LinkedIn

GitHub

Summary

Passionate **Data Analyst** Graduated from FAST NUCES with comprehensive expertise in **Machine Learning, Full-Stack Web Development, Blockchain, and AI/NLP**. Proven track record through **4 internships** and **16+ production-ready projects**. Skilled in building AI-powered applications, predictive models, and scalable systems. Conducted research on LLM-based conversational chatbots at FAST NUCES. Seeking opportunities to leverage data-driven solutions and cutting-edge technologies.

Education

FAST NUCES, Lahore Campus

2021 – 2025

Bachelor's in Data Science

- Research Assistant under Dr. Esha Tur Razia Babar
- Focus: Machine Learning, Deep Learning, NLP, Big Data Analytics

Punjab Group of Colleges

2019 – 2021

Intermediate in Computer Science (ICS)

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, C++, C, SQL, Java, Solidity

Machine Learning & AI: TensorFlow, PyTorch, Scikit-Learn, LSTM, Transformers, Hugging Face, OpenAI GPT-4, NLTK, Computer Vision

Web Development: Next.js 15, React, Node.js, Express.js, Tailwind CSS, ShadCN UI, REST APIs, WebSocket

Data Science: Predictive Modeling, Data Visualization, Big Data, Pandas, NumPy, Matplotlib, Seaborn, Plotly

Databases: MS SQL Server, MongoDB, PostgreSQL, Supabase, MySQL, Prisma ORM

Cloud & DevOps: Bicep (IaC), Vercel, Docker, Git, Azure CLI

Blockchain: Solidity, Web3.js, Smart Contracts, Truffle, Ganache

Professional Experience

AI-First Web Development Intern

2025

Nexium

- Developed **AI-powered Resume Tailor** platform with smart parsing, ATS optimization, and job matching algorithms using Next.js 15 and OpenAI GPT-4
- Built **Blog Summarizer** with web scraping, NLP summarization, and Urdu translation using dual database architecture (Supabase + MongoDB)
- Created **QuoteGen AI** with server-side rendering and WCAG 2.1 AA accessibility compliance
- Implemented responsive UI/UX with Tailwind CSS, ShadCN UI, and Progressive Web App features

Research Assistant

2024

FAST NUCES Lahore

- Conducting research on "**Exploring Publicly Available LLMs for Conversational Chatbots**" under Dr. Esha Tur Razia Babar
- Exploring persona-based chatbot architectures and bias mitigation strategies in LLM systems
- Investigating real-world applications and ethical challenges in LLM-driven conversations

Data Science Intern

2024

CodeAlpha

- Developed predictive models for business intelligence, improving decision-making accuracy by **25%**
- Designed automated data analysis pipelines, reducing processing time by **30%**
- Applied SQL and machine learning algorithms to extract actionable insights from large datasets
- **Certification:** Recognized for expertise in predictive modeling and data analytics

Data & Software Intern

2024

Kashf Foundation

- Built compliance system dashboard with real-time analytics and data monitoring
- Optimized SQL queries and database schema, reducing response time by **40%**
- Enhanced Android mobile app UI/UX, improving user engagement and satisfaction
- **Certification:** Dashboard development, app UI, and SQL databases

Featured Projects

Nexium Resume Tailor <i>Next.js 15, TypeScript, OpenAI GPT-4, Supabase, PWA</i>	2025
<ul style="list-style-type: none">• AI-powered resume optimization platform with smart parsing, ATS optimization, and job matching using NLP• Real-time editing, version control, and cover letter generation with PWA offline capability	
Blog Summarizer <i>Next.js 15, MongoDB, Supabase, Prisma, Cheerio</i>	2025
<ul style="list-style-type: none">• Full-stack AI web app with web scraping, NLP summarization, and Urdu translation• Dual database architecture for structured and unstructured data with glassmorphism UI	
Environmental Impact Analysis <i>Python, Satellite Data, NDVI, Jupyter</i>	2024
<ul style="list-style-type: none">• Analyzed satellite imagery to monitor deforestation and urban sprawl using NDVI indices• Visualized land cover changes for environmental decision-making with spectral analysis	
Lahore Smart City Management <i>Python, Pandas, NumPy, OpenWeatherMap API</i>	2025
<ul style="list-style-type: none">• Real-time data pipeline processing 13.5M+ vehicle registrations with 98.75% quality score• Weather integration and traffic safety analytics with synthetic data generation	
Election DApp <i>Solidity, Blockchain, Web3.js, Truffle, Ganache</i>	2025
<ul style="list-style-type: none">• Decentralized voting application on Ethereum blockchain with transparent smart contracts	
Edu Connect <i>React, Node.js, MySQL, WebSocket, Express</i>	2024
<ul style="list-style-type: none">• Full-stack platform connecting students with tutors featuring real-time WebSocket chat	
Image Captioning with LSTM <i>Python, TensorFlow, Keras, LSTM</i>	2024
<ul style="list-style-type: none">• Deep learning model generating descriptive captions, achieved 0.875 BLEU score	
Music Sentiment Analysis <i>Python, NLP, Machine Learning</i>	2024
<ul style="list-style-type: none">• Analyzed song lyrics sentiment across different music eras using NLP and ML algorithms	

Certifications

Nexium AI-First Web Development Internship (2025) – AI-powered Applications & Full-Stack Development
Technology Academy - Couch to Coder 2024 (Sep 2024) – Software Development
CodeAlpha Data Science Internship (Jun-Jul 2024) – Predictive Modeling & Data Analysis
Kashf Foundation IT Internship (Jul-Aug 2024) – Dashboard Development & SQL Databases

Key Strengths

Technical Proficiency: Expert in Python, JavaScript/TypeScript, SQL, ML, and Cloud Computing
Full-Stack Development: End-to-end application development from database to deployment
AI/ML Expertise: Deep learning, NLP, LLMs, and computer vision
Problem-Solving: Complex real-world data-driven challenges
Research Experience: Cutting-edge LLM and conversational AI technologies

16+ Production-Ready Projects | 4 Professional Internships | Active GitHub Contributor