

# Hamza Tariq

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## EDUCATION

### FAST NUCES Islamabad, PK

June 2025

B.S. Computer Science

- Courses: Deep Learnign, Generative AI, MLOps, Cloud Computing, Web Dev, Software Eng, AI, DB Systems, Linear Algebra, Multivariate Calculus, Probability & Statistics, Statistical Modeling

## EXPERIENCE

### AI/ML Intern – Software Productivity Strategists, Inc. (SPS)

Jul 2024 – Aug 2024

- Worked on ML and NLP projects, delivering innovative AI solutions.
- Integrated new AI techniques in a fast-paced team environment.
- Improved model clarity through better documentation and research balance.

### Full Stack Developer Intern – TechXserve

Jun 2024 – Aug 2024

- Built and maintained full-stack web applications using React, Node.js, and MongoDB.
- Integrated RESTful APIs and optimized frontend performance for a seamless UX.
- Gained hands-on experience with deployment pipelines and version control using Git and Docker.

### Lab Demonstrator & Teaching Assistant – FAST NUCES Islamabad

- Assisted students in AI, Operating Systems, COAL, Computer Networks and Database courses.
- Served as a Teaching Assistant for COAL, Computer Networks, and PDC courses.

## PROJECTS

### Empowered-AI (Final Year Project)

Mobile Application

- AI-powered, voice-navigated app designed to enhance accessibility for visually impaired individuals.
- Real-time features include object detection, scene description, text recognition, currency detection, and color identification.
- Includes facial emotion detection to assist users in navigating their environment.
- **Tech Stack:** Flutter, PyTorch, TensorFlow, Hugging Face, YOLO v5, CLIP, AWS, Firebase.

### InSightScraper

LinkedIn Employee Extraction Bot

- Developed an automated scraping tool using Selenium and Chrome WebDriver to extract employee data from LinkedIn.
- **Tech Stack:** Selenium, Chrome WebDriver, Unidecode, Time, CSV, FastAPI

### Machine Translation (English–Urdu)

Transformer Deep Learning Model

- Built a custom Transformer model for English-to-Urdu translation using a parallel corpus.
- Handled end-to-end NLP pipeline: data preprocessing, BPE tokenization, training, and evaluation (BLEU, ROUGE).
- Developed a real-time web interface with translation output and attention visualization.
- **Tech Stack:** PyTorch, TensorFlow, Flask, Byte Pair Encoding (BPE)

### InSightScraper

Full-Stack Company Website

- Built a responsive full-stack web app to manage client data and user interaction, with seamless frontend and RESTful API integration.
- **Tech Stack:** MongoDB, Express.js, React.js, Node.js (MERN)

## SKILLS

**Languages:** Python, C++, SQL, MongoDB, GO

**Frameworks/Libraries:** PyTorch, Flask, FastAPI, LangChain, LangGraph, LlamaIndex, NumPy, Pandas, Matplotlib, Tensor Flow

## CERTIFICATIONS & LICENSES

### Machine Learning/AI

- Machine Learning Solutions
- Fundamentals of ML and AI

AWS  
AWS

### Cloud

- AWS Cloud Data Pipeline Builder

AWS

### Academic

Awarded the Dean's List certificate for achieving a GPA of 3.7 in the 7th semester, recognizing academic excellence.