



Waseemullah Zahid

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ABOUT ME

I am a 7th semester Computer Science student with a strong passion for Artificial Intelligence, particularly in **Machine Learning, Natural Language Processing (NLP), Generative AI (Gen AI) and Computer Vision (CV)**. My experience spans developing and enhancing deep generative models like Variational Autoencoders for image reconstruction, building autonomous agents using reinforcement learning, and experimenting with adaptive optimization algorithms from research. I have hands-on expertise in TensorFlow, PyTorch, Scikit-learn, and Pandas, and have applied these skills across projects involving probabilistic modeling, unsupervised learning, and parallel computing.

EDUCATION AND TRAINING

Bachelor in computer science

FAST NUCES Islamabad Campus [22/08/2022 – Current]

City: Islamabad | **Country:** Pakistan | **Website:** www.nu.edu.pk | **Level in EQF:** EQF level 4

PUBLICATIONS

[2024]

Research Paper

This research introduces NG-EnVACK, a novel framework for detecting concept drift in cloud data streams. By combining ensemble variational auto-encoders with contextual networks under a non-Gaussian assumption, the model improves accuracy in identifying subtle and dynamic distribution shifts. The proposed method is tested on real-time cloud datasets, showing higher adaptability and robustness compared to traditional drift detection techniques.

SKILLS

natural language processing / computer vision / principles of artificial intelligence / business intelligence / Microsoft Office / Microsoft Word / Generative AI / machine learning

PROJECTS

[05/04/2023 – Current]

ComparePro

A smart platform that helps users quickly compare products, features, and prices so they can make better buying decisions without endless research.

[04/02/2025 – 07/05/2025]

IntakeAI

An AI-powered intake tool with a chatbot that collects client info, extracts requirements, and generates structured outputs like reports or Jira tasks to save hours of manual work.

[02/02/2024 – Current]

VoiceraAI

An AI teacher assistant that listens, translates, explains, and answers questions in any language or voice, helping students learn at their own pace while supporting teachers.

[01/06/2024 – Current]

JobPortalAI

An AI-powered job matching platform that connects candidates with the right opportunities by analyzing resumes, skills, and preferences, while helping employers find the best talent faster.

[01/08/2025 – Current]

HealixAI

Designed a **healthcare platform** enabling users to find **generic medicine alternatives** and receive **ML-based doctor recommendations**.

Implemented features for **appointment booking, secure payments, and scalable APIs** using Flask/Node.js with NoSQL databases.

Enhanced project scope with **AI-driven modules** including prescription scanning, symptom analysis, and real-time doctor availability.

WORK EXPERIENCE

FAST NUCES Islamabad Campus – Islamabad, Pakistan

City: Islamabad | Country: Pakistan | Name of unit or department: FAST NUCES - Business or sector: Education

Natural Language Processing

[01/06/2025 – 01/08/2025]

Assisted in developing and evaluating **NLP models** for text classification, sentiment analysis, and entity recognition. Gained hands-on experience with **Computer Vision tasks**, including image preprocessing, feature extraction, and deep learning.

Contributed to **data preparation, model optimization, and research on state-of-the-art AI techniques** using TensorFlow and PyTorch.

FAST NUCES Islamabad Campus – Islamabad, Pakistan

City: Islamabad | Country: Pakistan

Research Assistant

[01/01/2023 – 01/02/2024]

Conducted research in **NLP, Computer Vision, and Generative AI**, focusing on deep learning and transformer-based models.

Designed and optimized **ML models** for text, image, and multimodal tasks; managed large-scale datasets and experiments.

Collaborated on **research publications, grant proposals, and mentoring juniors** in AI model development.

Mentorress – Islamabad, Pakistan

City: Islamabad | Country: Pakistan

Data analyst

[10/06/2024 – 10/08/2024]

Collected, cleaned, and processed structured and unstructured datasets to ensure accuracy and consistency. Performed **exploratory data analysis (EDA)** using Python (Pandas, NumPy, Matplotlib, Seaborn) to identify patterns, trends, and insights. Assisted in building **data visualization dashboards** (Power BI / Tableau / Matplotlib) for reporting and decision-making.

 **Bit Build** – Islamabad, Pakistan

City: Islamabad | Country: Pakistan

Machine Learning Engineer

[05/06/2024 – 05/08/2024]

Developed and tested **machine learning and deep learning models** using Python (TensorFlow, PyTorch, scikit-learn). Conducted **data preprocessing, feature engineering, and model evaluation** to improve performance. Researched and implemented **state-of-the-art ML techniques** for real-world applications.

 **FAST NUCES Islamabad Campus** – Islamabad, Pakistan

City: Islamabad | Country: Pakistan

Health AI

[01/08/2025 – Current]

Developed **Healix**, a scalable healthcare app for **medicine alternatives, doctor recommendations, and appointment booking**. Built a **modular microservices architecture** (Flask/Node.js, Firebase/MongoDB) with secure payments and REST APIs. Explored **future AI-driven features** like prescription scanning, symptom chatbots, and real-time doctor availability.

VOLUNTEERING

[12/04/2023 – Current] islamabad

Finance Officer

Managed budgeting, expense tracking, and financial planning to support society events and activities.

SOCIAL AND POLITICAL ACTIVITIES

[01/01/2024 – 01/01/2025] Islamabad

Event Head

Organized and led multiple technical and non-technical events, managed teams, coordinated with external partners, and ensured smooth execution of society activities to engage students in computing and innovation.

[01/01/2024 – 02/01/2025] Islamabad

Usher

Assisted in event management by guiding participants, coordinating with organizers, and ensuring smooth flow of activities during the job fair.

[13/10/2024 – Current] Islamabad

Social Media Marketing

Managing **social media campaigns and content strategy** for FAST Data Science Society to enhance outreach and engagement.

[14/10/2024 – Current] Islamabad

Operation Secretary

Coordinated **operations and event management** as Operation Secretary for Microsoft Learn Student Ambassadors Islamabad.

[06/06/2024 – 06/08/2024] Islamabad

Front Desk Officer

Assisted with **student services and administrative support** as Front Desk Officer at the National University of Computer and Emerging Sciences.

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

HOBBIES AND INTERESTS

Cricket

Enjoy playing and following cricket, developing teamwork and strategic thinking.

Reading

Explore books and articles on technology, AI, and personal growth to stay informed and inspired.

Gaming

Engage in strategy and simulation games to enhance problem-solving and decision-making skills.

Traveling

Love exploring new places and cultures to broaden perspectives and creativity.

Photography

Capture moments and scenes, blending creativity with attention to detail.