

# Abdullah Bin Faiz

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## Education

### National University of Computer and Emerging Sciences

Bachelor of Sciences (BS) in Computer Science

Aug. 2019 - Jun. 2023

Islamabad, Pakistan

## Research Experience

### Lahore University of Management Sciences

Research Assistant - Biomedical Informatics Research Lab

Oct. 2024 - Present

Lahore, Pakistan

- Designed a centralized web server providing rich analysis and programmatic access of Post-Translational Modification data; Devised log-sum and log-log product algorithms for calculation of propensity scores of PTM on a residue
- Currently developing a deep learning model for residue-level PTM prediction using structural conformation and residue-pair relationships

## Industry Experience

### CureMD

Senior AI Research Engineer

Jul. 2023 - Present

Lahore, Pakistan

- Evaluated language models for extraction of breast cancer phenotypes from clinical notes, outperforming ontology-based pipelines with 86% accuracy using Llama-3 8B
- Implemented a scalable digital twin system prototype supporting > 100,000 virtual patients and doctors in real time, demonstrating feasibility of population-scale predictive health modeling; deployed on a 4-node A100 GPU cluster with latency < 1s per 70k patients
- Proposed a deliberative agent architecture integrating language models' deep reasoning capabilities into classical BDI agents, enabling hybrid approaches to autonomous decision-making and planning

## Publications

- M. F. Shahid, A. Afzal, A. B. Faiz, et al. (2025) “Leveraging Large Language Models and Survival Analysis for Early Prediction of Chemotherapy Outcomes.” *International Conference on Artificial Intelligence in Medicine*. [Accepted; withdrawn prior to publication]
- A. B. Faiz, et al. (2025) “PERCEPTRON-PTMKB - A Web Server for Residue-Based Post-Translational Modification Analysis and Propensity Scoring.” *Journal of Molecular Biology* [Under Review]
- R. Shah, A. B. Faiz, et al. (2025) “TCNA” *Journal of Molecular Biology* [Under Review]

## Presentations

- A. B. Faiz, et al. (2024) “Extracting Breast Cancer Phenotypes from Clinical Notes: Comparing LLMs with Classical Ontology Methods.” *Proceedings of AIME Workshop on*

# **Abdullah Bin Faiz**

*AI in Oncology.*

- M. U. Shahid, A. B. Faiz et al. (2025) “Medical Metaverse.” Presented at the AI Booth, *HIMSS Global Health Conference & Exhibition*, Las Vegas, NV, USA.

## **Teaching Experience**

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**National University of Computer and Emerging Sciences** *Jul. 2021 - Jun. 2023*  
Teaching Assistant *Islamabad, Pakistan*

- Assisted supervisors in Design and Analysis of Algorithms, Data Structures, Object-Oriented Programming, and Computer Organization & Assembly Language
- Designed assessments and supported students with challenges in coursework

**National University of Computer and Emerging Sciences** *Jul. 2022 - Jun. 2023*  
Lab Demonstrator *Islamabad, Pakistan*

- Supervised practical labs and conducted evaluations
- Guided students in lab work

## **Academic Projects**

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- **Novozymes Enzymes Thermostability Prediction:** Developed an XGBoost-based forest model for finding the optimal melting temperature of a trial enzyme; Spearman’s correlation of 0.56 achieved.
- **TORCS Self-Driving Car:** Trained a racing-policy Random Boosted Forest in TORCS from 100 hours of human driving data.

## **Volunteer Experience**

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- Co-organized the **24th IEEE International Multitopic Conference**
- Served as Head Research at the **Society for Advancement in Scientific Research** group
- Served in a Buddy Programme at the **FAST Computing Society** group

## **Awards**

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- 7 times consecutive Dean’s List of Honors (2020 - 2023)

## **Technical Skills**

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- **Programming Languages:** Python, C++, C, Java
- **Tools:** Git, Github, GNU/Linux, Docker, Milvus, Nginx
- **Frameworks:** PyTorch, Scikit-learn, NumPy, Pandas, SciPy, Matplotlib, Hugging Face Transformers, Biopython, CUDA, TensorRT, Apple MLX