

Badar Rasheed Butt

Computer Scientist — Researcher

badarrasheedbutt@gmail.com — +92-315-7706957 — github.com/BADARRASHEED —
linkedin.com/in/badar-rasheed-butt

RESEARCH PROFILE

Research-oriented Computer Scientist with a strong foundation in machine learning, deep learning, and AI systems. Interested in developing robust and impactful methodologies in **multimodal learning**, **computer vision**, and **natural language processing**, particularly for healthcare applications. Experienced in designing end-to-end machine learning pipelines, evaluating model performance, and integrating research-driven systems into real-world applications. Motivated to contribute to advanced research and pursue doctoral study in artificial intelligence.

RESEARCH INTERESTS

Machine Learning — Deep Learning — Computer Vision — Cloud Computing — Explainable AI — AI for Healthcare

TECHNICAL SKILLS

Languages: Python, SQL

ML / AI Frameworks: scikit-learn, PyTorch, Hugging Face Transformers

Data Science Libraries: NumPy, Pandas, Matplotlib, Seaborn, Plotly

Backend & APIs: FastAPI, Django, RESTful API Development

Databases: PostgreSQL, MySQL, SQLite

Tools: Git, Docker, Linux, Jupyter, Google Colab, Kaggle, LaTeX

Cloud: Microsoft Azure

PROFESSIONAL EXPERIENCE

Microtechx

AI Engineer

June 2026 – Present

Remote, Germany

- Working on Azure-based AI solutions, cloud infrastructure, SaaS platforms, and DevOps/CI/CD workflows.
- Supporting the development, deployment, and management of AI-driven applications in cloud environments.
- Building and supporting AI solutions using **Microsoft Azure** cloud services.
- Working with DevOps and CI/CD pipelines to improve deployment efficiency and system reliability.
- Supporting SaaS-based application development, cloud management, and automation workflows for scalable cloud-based systems.

Workabotai

Data Scientist Intern

December 2025 – March 2026

Remote, UAE

- Worked on financial data analysis and machine learning workflows for business-focused data products.
- Built data preprocessing and feature engineering pipelines to support model development on finance-related datasets.
- Contributed to model evaluation and reporting to improve decision-making through data-driven insights.
- Also worked as an Assistant Project Manager, internally managing project coordination, task planning, and team progress tracking.

RESEARCH EXPERIENCE

Multimodal PTSD Detection System

Oct 2024 – Jul 2025

- Designed a multimodal deep learning system integrating video, audio, and textual data for PTSD detection in telehealth and clinical support settings.
- Explored transformer-based models for text processing and deep learning approaches for multimodal representation learning.
- Investigated the integration of natural language processing and computer vision pipelines within a unified system architecture.
- Evaluated practical trade-offs between predictive performance and inference efficiency for near real-time clinical decision support.
- Contributed to applied research at the intersection of healthcare AI, multimodal learning, and deployable intelligent systems.

TECHNICAL PROJECTS

Backend for Multimodal AI System (*FastAPI, PyTorch, Transformers*)

Oct 2024 – Jul 2025

- Developed a scalable REST API using **FastAPI** to serve multimodal machine learning models in production-oriented environments.
- Integrated NLP and computer vision workflows into a unified backend for seamless model deployment and inference.
- Optimized backend performance to reduce inference latency and support near real-time usage in healthcare-related applications.

EDUCATION

Gift University

Bachelor of Science in Computer Science | CGPA: 3.96/4.00

Gujranwala, Pakistan

2025

CERTIFICATIONS

- Python Developer — DataCamp (2024)
- Data Scientist in Python — DataCamp (2024)
- Machine Learning Specialization — Coursera (2025)
- Deep Learning Specialization — Coursera (2025)
- Machine Learning Scientist in Python — DataCamp (2025)
- AWS Cloud Practitioner (CLF-C02) — DataCamp (2026)
- Snowflake Foundations — DataCamp (2026)

ACHIEVEMENTS

Graduated in the top 1% of class at Gift University with a CGPA of 3.96/4.00.

Developed machine learning systems for healthcare-oriented applications, contributing to applied AI research and deployment.

Built scalable AI backends integrating deep learning models into real-world environments.