

Badar Rasheed Butt

Computer Scientist — Researcher

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PROFESSIONAL SUMMARY

Results-driven Machine Learning Engineer and Python Backend Developer with a strong foundation in designing and deploying scalable, AI-powered systems. Experienced in building production-grade APIs, optimizing ML/DL models, and delivering robust data solutions using **FastAPI**, **PyTorch**, **scikit-learn**, and SQL. Adept at integrating machine learning models into real-world applications to drive business outcomes and efficiency. Passionate about delivering reliable solutions through strong software engineering and MLOps best practices.

TECHNICAL SKILLS

Languages: Python, SQL

Python Libraries: NumPy, Pandas, Matplotlib, Seaborn, Plotly

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

Backend & APIs: FastAPI, RESTful API Development

Databases: PostgreSQL, MySQL, SQLite

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

Areas: Backend Development, Data Analysis, Data Visualization, Machine Learning, Deep Learning, NLP, Computer Vision, Model Deployment, Unit Testing

PROJECTS

Backend for Multimodal PTSD Detection System (*FastAPI, PyTorch, Transformers*) Oct 2024 – Jul 2025

- Engineered a production-grade REST API with **FastAPI** to serve multimodal deep learning models (video, audio, text) for telehealth use cases.
- Unified natural language processing and computer vision pipelines within a scalable backend, enabling seamless integration with clinical applications.
- Achieved significant reduction in inference latency, supporting near real-time decision support for clinicians.

EDUCATION

Gift University

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

Gujranwala, Pakistan

Expected Graduation: 2025

CERTIFICATIONS

- Deep Learning Specialization — Coursera (2025)
- Machine Learning Scientist in Python — DataCamp (2025)
- Python Developer Track — DataCamp (2024)

ACHIEVEMENTS

Graduated in the top 1% of class at Gift University (CGPA: 3.96/4.00).

Designed and deployed ML-powered APIs, enabling seamless AI integration in production systems.

Contributed to impactful research in healthcare AI and NLP, delivering solutions adopted in telehealth.