

Bushra Baig

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ABOUT ME

AI and Machine Learning enthusiast with practical experience in building intelligent chatbots and context-aware systems using Gemini 2.0 Flash, LangChain, and LangGraph. Skilled in integrating tools like Google Drive, Gmail, and Calendar for dynamic AI workflows. Experienced with vector databases (Faiss, Pinecone, Weaviate) and projects in NLP, deep learning, and computer vision. Passionate about delivering real-world, scalable AI solutions.

WORK EXPERIENCE

Teaching & Academic Coordinator, Rawalpindi September 2025 - Present

Served as an Academic Coordinator and Teacher, responsible for course delivery, academic planning, student coordination, record maintenance, and supporting smooth departmental operations.

AI/ML ENGINEER, Siber Kozal International, Rawalpindi April 2025 - June 2025

During my AI/ML internship, I developed intelligent chatbots using Google Gemini and LangGraph with integrated memory and tool routing. These bots connected with Google Search and Calendar to handle real-world user queries dynamically

FRONT-END DEVELOPER, BBT May 2024 - September 2024

Served as a Front-End Development Intern at BBT Software House, building responsive web interfaces using HTML, CSS, JavaScript. Collaborated with developers and designers to implement user focused features. Demonstrated strong time management by meeting deadlines and contributing to team goals

EDUCATION AND TRAINING

BSCS(AI specialization), PMAS Arid Agriculture University 2021-2025

PROJECTS

AI Based Student Attendance With Emotion and Behaviour Analysis

- Developed an AI-powered system for student attendance, behavior, and stress monitoring
- Integrated computer vision and real-time analytics to track student engagement and emotional patterns

Ortho Scan - AI-Assisted Bone Fracture Detection App

- AI-powered mobile app that uses CNN-based deep learning to detect bone fractures from X-ray images in real time with automated report generation. Includes an AI medical chatbot, secure authentication, and cloud-based report sharing for quick, accurate diagnostics

Data Driven Services Mashup Composer for Developers

- NLP based project using S-Bert and GAN that provide API's to developers

ChatBot

- Chatbot using google search grounding with tools integrated with it

Digit Recognition

- Recognize digits using yolo- v9

CERTIFICATIONS

WEB DEVELOPMENT, Udemy 2024

INTRODUCTION TO MACHINE LEARNING, Great Learning 2023

INTRODUCTION TO ARTIFICIAL INTELLIGENCE, Great Learning 2023

SKILLS

Languages: Python, C/C++, SQL, HTML/CSS **Frameworks:** TensorFlow, PyTorch, Matplotlib, Keras, NLTK, Transformers

Tools: Github, JIRA, Google Colab, OpenCV, LangChain / LangGraph, YOLOv8

LANGUAGE SKILLS

Mother tongue(s): **URDU | ENGLISH**