

Mohammad Hasnat

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TECHNICAL SKILLS

AI/ML/Data: Python, TensorFlow, PyTorch, LLMs (RAG/LangChain), Scikit-Learn, PowerBI, SQL

Web/Cloud: React, Next.js, Django, Flask, FastAPI, Docker, GCP, Azure, Git, CI/CD

PROFESSIONAL EXPERIENCE

Data Analyst & Software Developer

Jan 2023 – July 2025

Planning and Development Dept, Govt of Balochistan

Quetta, Pakistan

- Developed and deployed software modules to automate government planning workflows, resulting in a **40% reduction** in processing time.
- Engineered real-time data visualization dashboards using **PowerBI** and **Python** to support optimal provincial resource allocation.
- Managed large-scale datasets using optimized **SQL** and data cleaning scripts, ensuring 99% data integrity for administrative reports.

Research Assistant

Jan 2022 – Oct 2022

BUIITEMS

Quetta, Pakistan

- Assisted in Deep Learning research, implementing neural network architectures for localized dataset analysis.
- Engineered automated data pipelines that improved model training efficiency and data throughput by **15%**.
- Authored technical documentation for research findings, contributing to the publication of academic AI reports.

Software Engineer (Freelance / Contract)

Nov 2022 – Present

Independent Contractor

Remote

- Successfully delivered **10+ technical solutions** for local and international clients, including AI integration projects and customized web services.
- Developed robust backend APIs using **Flask**, **Django**, and **FastAPI**, focusing on efficient data handling and security.
- Implemented dynamic and responsive frontends using **React** and **Next.js**, enhancing user experience across client platforms.

KEY PROJECTS

AI-Powered Chatbot with RAG | *Python, Hugging Face, LangChain, FastAPI*

2025

- Designed a context-aware system using **Retrieval-Augmented Generation** to query large, domain-specific knowledge bases.
- Enhanced response accuracy and reduced hallucination by 25% through strategic prompt engineering.

CNN-Based Image Classifier | *TensorFlow, Keras, NumPy, OpenCV*

2022

- Trained a Convolutional Neural Network (CNN) architecture, achieving an **F1-score of 0.92** on specialized image datasets.
- Utilized transfer learning and data augmentation to optimize model performance in resource-constrained environments.

EDUCATION

BUIITEMS

Quetta, Pakistan

Bachelor of Science in Software Engineering

Sep. 2018 – Nov. 2022

- Core Focus: Machine Learning, Data Structures, Natural Language Processing, and Database Management.

CERTIFICATIONS

Supervised Machine Learning (Coursera/DeepLearning.AI) | **Google Data Analytics** (Coursera) | **Pandas for Data Science** (DataCamp)