Muhammad Hasnain Fatmi

+92 3077178904 | hasnainfatmi22@gmail.com | GitHub | LinkedIn | Portfolio

Software engineer with experience in full-stack development, data pipelines, data transformation, and ML workflows. I focus on creating efficient, impactful systems that turn data into meaningful outcomes.

Education

FAST NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES **Lahore, Pakistan**
Bachelor of Science, Computer Science **(Sep 2021 – June 2025)**

Experience:

ASSOCIATE SOFTWARE ENGINEER **Lahore, Pakistan**
EaseCloud Technologies **(Aug 2025 – Present)**

- Built and maintained data streams to support data extraction, transformation, and analytics.
- Designed and optimized Snowflake data warehouse, implementing clustering and partitioning strategies that improved query performance and reduced compute costs by 40%.
- Created interactive Metabase dashboards tracking key business metrics, reducing ad-hoc reporting requests and enabling executives to identify revenue optimization opportunities
- Implemented several utility tools using Node.js for developer productivity and workflow automation.

SOFTWARE DEVELOPMENT INTERN **Lahore, Pakistan**
Techlogix Pakistan (Pvt.) **(Jul 2024 – Aug 2024)**

- Developed backend features in .NET Core and frontend interfaces in AngularJS.
- Collaborated with the team to deliver project milestones on time.

Projects

SkillSync - FYP | RAG, DJANGO, REACTJs, SENTENCE-BERT, LANG-CHAIN, LLMs **(May 2025)**

- Final Year Project focused on Smart career guidance platform with personalized job recommendations and career planning with help of NLP and RAG for text generation and semantic analysis.
- Features: Personalized Career Advice, Context-Aware Job Recommendations, Skill Assessment.

DCACNet-CD | CNN, ATTENTION CONDENSER, AUGMENTATION, FASTAPI **(Apr 2025)**

- This project is a deep learning model for efficient skin lesion classification using custom CNN.
- Achieved ~91% classification accuracy through transfer learning and data augmentation techniques.

HWCS | KNN, PYTHON, GLCM, FLASK **(Apr 2024)**

- Handwriting-based writer identification system, achieving ~93% accuracy through optimized KNN classification.
- Deployed the trained model on Hugging Face to showcase handwriting recognition capabilities.

Technical Skills

Languages & Frameworks: C++, C#, Python, React, Angular, .NET Core, Django, Node.js, React Native
Databases: PostgreSQL, SQLite, MySQL, Firebase, MongoDB
Cloud & DevOps: Docker, GitHub Actions, GCP
Data Analytics: Airbyte, DBT, Snowflake, Metabase, Spark, Power Bi

Career Interests

Software Development Machine Learning App Development Data Analytics Data Engineering