

HASNAIN GUL

AI/ML Engineer

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ABOUT ME

Aspiring AI/ML Engineer with a strong foundation in Natural Language Processing (NLP) and Deep Learning. Experienced in building full-stack AI applications, including RAG-based systems and disinformation detection platforms. Proficient in Python, FastAPI, and LangChain, with a focus on deploying scalable models to production. Eager to leverage strong problem-solving skills to contribute to innovative AI solutions

SKILLS

- Languages: Python (Advanced), SQL.
 - Machine Learning: Scikit-learn, NumPy, Pandas, XGBoost, Predictive Modeling.
 - Deep Learning: PyTorch/TensorFlow, Neural Networks, Computer Vision.
 - Generative AI & NLP: RAG Implementation, LangChain, Vector Databases, Hugging Face, LLMs.
 - Deployment & Tools: FastAPI, Git/GitHub, Docker, Google Colab.
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PROJECTS

1) Advanced Multi-Modal Disinformation Intelligence System | Python, Graph

Database, Deep Learning

- Developed an enterprise-grade platform to detect and visualize disinformation campaigns in real-time.
- Implemented multi-modal analysis (text, image, video) to calculate "Truth Scores" for content verification.
- Utilized Graph Databases to map narrative spreads and visualize relationships between data points.

2) Intelligent RAG-Based Educational Tutor | Python, LangChain, FastAPI

- Built a Full-Stack RAG application to assist O/A Level students by processing uploaded PDF notes.
- Engineered a retrieval system to strictly ground answers in user-provided content, significantly reducing model hallucinations.
- Deployed the backend using FastAPI to serve real-time user queries.

3) Solar Production & Load Prediction | Time-Series Analysis, Scikit-learn

- Predicted PV generation and user load at 10-minute intervals using real-world data from SkyElectric/SkyLabs.
- Achieved low Mean Absolute Error (MAE) by optimizing ML/DL models in a Kaggle competition.

4) Air Quality Prediction | Python, Random Forest, Data Visualization

- Modeled air quality levels using supervised learning techniques including Linear Regression and Random Forest.
 - Performed end-to-end data lifecycle management: data cleaning, visualization, and model evaluation in Google Colab.
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WORK EXPERIENCE

AI Research Trainee (Bootcamp) | GIK Institute (GIKI) 8 Weeks

- Completed intensive training in Deep Neural Networks, gaining hands-on experience with backpropagation and model optimization.
 - Collaborated on capstone projects focusing on Advanced Neural Networks.
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EDUCATION

BSc: in Computer Software Engineering from University of Engineering and Technology (UET), Mardan | CGPA: 3.1 (Currently in 8th semester)

Intermediate: (Pre-Engineering) Govt College Peshawar | Marks: 955/1100

Matriculation: Read Public School and College, Harichand | Marks: 928/1100

CERTIFICATIONS

- Deep Neural Networks – GIKI (8-Week Bootcamp)
 - Machine Learning Specialization – Coursera (DeepLearning.AI)
 - Retrieval Augmented Generation (RAG) – Coursera
 - AI For Everyone – Coursera
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