**MUHAMMAD UMAR ILYAS**  
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GitHub ‘https://github.com/umar551869’ . Portfolio ‘https://my-resume-five-ecru.vercel.app/’

**PROFESSIONAL SUMMARY**

Aspiring Data Scientist with experience in building intelligent ML and deep learning models. Skilled in NLP, computer vision, multimodal systems (CLIP, Faiss), and large-scale data processing. Adept at deploying end-to-end AI solutions and extracting actionable insights. Seeking to contribute to data-driven teams solving impactful problems.

**EDUCATION**

**Bachelor of Science in Data Science**  
FAST National University, Lahore

**TECHNICAL SKILLS**

**Languages:** Python, C++, Java Script,Html,CSS, SQL, Assembly  
**ML/AI:** Supervised & Unsupervised Learning, CNN, RNN, Transformers, GANs, Reinforcement Learning  
**NLP & CV:** BERT, GPT-2, Text Mining, Sentiment Analysis, CLIP, Image Classification  
**Data Science:** Predictive Modeling, A/B Testing, Statistical Analysis, Hadoop (basics), Spark, Web Scraping  
**Tools:** PyTorch, TensorFlow, Faiss, Jupyter, Git, Google Colab, Tableau, Power BI

**PROJECT EXPERIENCE**

**AI Recipe Generator** – *Computer Vision & NLP*  
• Used MobileNet to classify food images and GPT-2 to generate cooking instructions.

**Multimodal Search Engine (Text + Image)** – *Faiss, OpenAI CLIP*  
• Developed a semantic search engine using joint image-text embeddings.

**AI Team Optimizer** – *Clustering, Regression*  
• Recommended best team formations using clustering + performance modeling on historic data.

**Speech-Based Personality Matcher** – *Tsne-Clustering-EDA*  
• Applied classification models to detect dominant personality traits.

**Twitter Sentiment Analyzer** – *NLP, Data Visualization*  
• Visualized sentiment trends with Matplotlib and Seaborn.

**Sales Forecasting (Big Data)** – *Spark, Regression*  
• Predicted product demand using time-series regression on retail data.

**Email Classifier** – *Text Classification, NLP*  
• Built a multi-class classifier using SVM, Naive Bayes, and BERT for email sorting.

**SOFT SKILLS**

Analytical Thinking · Problem Solving · Collaboration · Communication · Project Leadership · Time Management