

Abubakar Saddique

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PROFILE

AI / Machine Learning Engineer with hands-on experience building, deploying, and scaling machine learning and GenAI systems. Strong background in Python, deep learning (TensorFlow, PyTorch), and modern LLM frameworks including LangChain, LangGraph, CrewAI, Agno, and Ollama. Experienced in end-to-end ML pipelines, API-based inference, and MLOps using Docker, MLflow, and AWS. Passionate about developing real-world AI solutions using both classical ML and Generative AI.

EDUCATION

Bachelor of Science in Computer Science

2021 – 2025

University of South Asia *Lahore Pakistan*

SKILLS

- **Programming & Data Tools:** Python, SQL , Pandas, NumPy
- **Machine Learning & Deep Learning:** Scikit-learn, XGBoost, TensorFlow, PyTorch, NLP
- **MLOps & Deployment:** Docker, FastAPI, AWS (S3, EC2, IAM), MLflow, Git
- **Visualization & BI:** Power BI, Streamlit, Matplotlib, Seaborn, Plotly
- **Math & Statistics:** Probability, Linear Algebra, Calculus, Statistics, Hypothesis Testing
- **Generative AI & LLMs:** LangChain, LangGraph, CrewAI, Agno, Ollama, Prompt Engineering, RAG Pipelines, LLM Agents

PROJECTS

Influencer Insights: YouTube Comment Analyzer | [Link](#)

- Built a Chrome extension for real-time sentiment analysis on YouTube comments using an ML model trained on 3.7K labeled samples incorporating NLP techniques.
- Designed a full MLOps pipeline with data and model versioning using MLflow and deployed a Dockerized FastAPI on AWS EC2 enabling scalable predictions and monitoring.

Hybrid Spotify Music Recommender | [Link](#)

- Engineered a hybrid recommendation system combining SVD-based collaborative filtering and content-based filtering improving recommendation precision by 20%.
- Demonstrated ability to design systems balancing personalization and scalability in recommendation tasks

Real Estate Properties Analytics Tool | [Link](#)

- Developed an XGBoost regression model predicting property prices with 84% accuracy using structured housing data.
- Created an interactive Streamlit dashboard to visualize market trends and provide property recommendations aiding decision-making for buyers and sellers.

EXPERIENCE

Data Science Intern at DevelopersHub Corporation©

June 2025 - July 2025 (2 months)

- Built machine learning models to extract business insights from large datasets improving decision support.
- Automated data preprocessing workflows boosting team efficiency by 15%.
- Designed and presented Power BI dashboards to track KPIs enabling managers to monitor performance in real time.

Data Science Intern at Salaar Technologies Pvt. Ltd.

October 2025 Present

- Gaining hands-on experience in data analysis, visualization, and predictive modeling using Python and relevant libraries.
- Assisting in cleaning, processing, and analyzing large datasets to extract actionable insights.
- Collaborating with the team on machine learning projects to improve business decision-making.
- Continuously learning and applying modern data science techniques in real-world projects.