ADIL SHAMIM
Machine Learning Engineer

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I'm Adil Shamim. I'm a Machine Learning Engineer with over two years of hands-on experience. I build practical ML systems—pipelines, Dockerized services, and tracked experiments—that teams actually use. I founded Toolly and built a recommender that boosted a client's sales by 10%. I enjoy transforming complex data into intuitive tools that enable people to make informed decisions.

SKILLS

Programming & Data: Python (Advanced) · SQL (Advanced) · R (Intermediate) · Bash

Modeling & ML - DL: TensorFlow · scikit-learn · XGBoost · LightGBM · CatBoost

MLOps & Deployment: MLflow · ZenML · Docker · FastAPI

Tools: Jupyter · Git · VSCode

PROJECTS

Prices Predictor System | [*GitHub*] | ZenML, MLflow, XGBoost, LightGBM, Docker, FastAPI

- Built an end-to-end price-prediction pipeline (ingest → preprocess → train → evaluate → register → serve) to standardize model development and deployment.
- Tracked experiments with MLflow, ran CV and hyperparameter tuning for robust model selection, and Dockerized a FastAPI inference service for reproducible production use.

Toolly Studio | [*GitHub*] | Streamlit, Bria AI, Python, Docker

- Developed a demo-ready Streamlit app that generates professional product ads by integrating Bria AI image-generation APIs and templated prompts.
- Implemented client-preview, batch export workflows, and a one-command Docker demo to make the tool easy to share with non-technical users.

Resume Screening | [*GitHub*] | spaCy, SBERT, FAISS, Flask, Python

- Built an automated resume-parsing → embedding → ranking pipeline (spaCy → SBERT → FAISS) to surface top candidates quickly.
- Served ranked shortlists via a Flask API and reduced manual screening overhead through accurate semantic matching.

Book Recommender System | [*GitHub, Preview*] | ALS, TF-IDF / Embeddings, Python, Flask

- Implemented a hybrid recommendation system combining collaborative filtering (ALS) with content-based embeddings to personalize suggestions.
- Exposed recommendations via a lightweight Flask API and supported a pilot deployment that produced a +10% sales lift.

TECHNICAL EXPERIENCE

Freelance Machine Learning Engineer — Self-employed   January 2025—Present
- Performed end-to-end analyses on public datasets to extract actionable insights for health and economic questions; produced slide decks and dashboards for stakeholders.
- Created a hybrid recommendation system for a local business (collaborative + content-based); deployed results and achieved a 10% sales increase in 3 months.

Kaggle Experience
- Kaggle Expert Rank — completed 15 competitions, focusing on robust modeling and reproducible notebooks.

EDUCATION

Computer Science and Engineering - BNIST   February 2023—Present
Relevant coursework: Linear Algebra · Calculus · Probability & Statistics · Data Structures & Algorithms · Programming Languages · Operating Systems · Computer Architecture · Database Systems

CERTIFICATIONS
- Machine Learning — Stanford University (*Coursera*)
- CS50: Introduction to Computer Science — *Harvard*
- Python for Data Science, AI & Development — *IBM*
- Career Essentials in Generative AI — Microsoft + LinkedIn [*Link*]
- Machine Learning Pipelines with Azure ML Studio (*Coursera*)

ACHIEVEMENTS

- Founder of Toolly — an AI-powered productivity tool.
- Published the Exploring Mental Health Dataset on Kaggle.
- Contributed to open-source projects in ML/NLP.
- Active blogger + educator with ML notes and guides.

Languages

- English (Fluent) · Bengali (Native) · Hindi (Conversational)