

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)