

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 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 · SQL

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

July 2025—Present

- Created a hybrid recommendation system for a local business (collaborative + content-based); deployed results and achieved a 10% sales increase in 3 months.

Kaggle Competitions | Kaggle Expert

- Completed 15 competitions with a focus on robust modeling and creating reproducible notebooks.
- Predicting Road Accident Risk — Ranked Top 1% (38/4,082 participants)
- Predicting Beats-per-Minute of Songs — Ranked Top 2% (38/2,581 participants)

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)