

ARIAN JAFAR

Machine Learning & Deep Learning Engineer

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15+

Repositories

530+

Contributions (2025)

6

Featured ML/DL Projects

PROFESSIONAL SUMMARY

Self-directed Machine Learning & Deep Learning engineer with a proven track record of shipping end-to-end AI projects across computer vision, time-series forecasting, and predictive modeling. Skilled at architecting modular, config-driven pipelines, diagnosing model performance, and writing clean, reproducible code on professional Git workflows. Seeking a Machine Learning Engineer or Data Scientist role to bring this foundation to production-grade AI systems.

TECHNICAL SKILLS

Programming & Machine Learning

Python, SQL, Scikit-learn, XGBoost, Classification, Regression, Feature Engineering, Hyperparameter Tuning

Deep Learning

TensorFlow, Keras, ANNs, CNNs, LSTMs, Transfer Learning

Data Science & Visualization

NumPy, Pandas, Matplotlib, Seaborn, Exploratory Data Analysis, Data Cleaning

Tools & Workflow

Git, GitHub, Jupyter Notebook, VS Code, Google Colab, Reproducible Pipelines

SELECTED PROJECTS

Garbage Classification with Transfer Learning — *Python, TensorFlow, Keras, Scikit-learn*

- Benchmarked a custom CNN against transfer-learning architectures (ResNet50, MobileNetV2, EfficientNetB0) for waste classification, using confusion-matrix diagnostics to compare accuracy-efficiency trade-offs.

Credit Card Fraud Detection — *Python, Scikit-learn, XGBoost, Imbalanced-learn*

- Built an end-to-end fraud-detection pipeline (EDA, SMOTE for class imbalance, Logistic Regression / Random Forest / XGBoost comparison), validated with cross-validation, ROC-AUC, and Precision-Recall AUC.

Chest X-ray COVID-19 Classification — *Python, TensorFlow, Keras*

- Designed a custom CNN pipeline to classify chest X-rays into COVID-19, pneumonia, and normal categories, with preprocessing, augmentation, and visual performance evaluation.

LSTM Google Stock Price Forecasting — *Python, TensorFlow, Keras*

- Built an LSTM-based time-series model to forecast GOOGL stock prices, covering sequence generation, preprocessing, and predicted-vs-actual performance evaluation.

Student Performance Prediction — *Python, TensorFlow, Keras, Scikit-learn*

- Developed an end-to-end deep learning pipeline analyzing student academic performance through EDA, regression, and classification.

Lung Cancer Prediction — *Python, Scikit-learn, Pandas*

- Built and evaluated classical ML classifiers to predict cancer likelihood from patient health data, including data cleaning and EDA.

Full portfolio of 15+ repositories available at github.com/ArianJr

CONTINUED LEARNING

- Machine Learning Specialization — Andrew Ng, Coursera
- Deep Learning A-Z 2025: Neural Networks, AI & ChatGPT Prize — Udemy
- Python for Data Science and Machine Learning Bootcamp — Udemy

EDUCATION

B.Sc. in Computer Engineering — Islamic Azad University, West Tehran Branch

September 2024 – Present | Grade: 19.29/20