Abdullah Bin Noor Tazim

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SUMMARY

Final-year Computer Science student with hands-on experience developing and deploying machine learning solutions, from data preprocessing to production. Skilled in Python, TensorFlow, and Flask, with additional exposure to PyTorch, Docker, and cloud deployment. Successfully built and deployed end-to-end ML/DL projects. Strong track record of translating data into real-world impact, with a passion for delivering scalable AI products. Eager to apply technical expertise, problem-solving skills, and deployment experience to fast-paced teams driving innovation in AI.

SKILLS

Programming: Python, C
ML/DL: TensorFlow, Keras, Scikit-learn, CNNs, NLP, Computer Vision
Data Tools: Pandas, NumPy, Matplotlib, Seaborn
Deployment & DevOps: Docker, Flask, Git, REST APIs
Project Management & Vision Control : Git , Github , Jira , Trello
Other: Data preprocessing, Data Visualization, Feature Engineering

EXPERIENCE

Machine Learning Intern

CodeAlpha — August 2025 - Present

- Built a credit risk prediction system using ensemble models (LightGBM + XGBoost), achieving F1-score: 96.1% and AUC-ROC: 0.9888, significantly improving prediction reliability.
- Reduced false negatives by 16%, directly enhancing detection of high-risk borrowers and lowering potential default exposure.
- Designed a robust preprocessing pipeline (categorical encoding, missing value imputation, risk binning) that improved F1 by +8%, yielding a 14% lift vs. baseline models.
- Developed a production-ready ML pipeline (ETL → training → evaluation → deployment), making it suitable for fintech loan approval systems

Trainee

Neurochip Industries Limited | Dhaka, Bangladesh — January 2024 - March 2024

- Assisted in the design and development of internal ERP modules for inventory, HR, and task management.
- Contributed to testing and debugging core functionalities to ensure system reliability.
- Used Jira for sprint planning, task tracking, and team collaboration in an Agile environment.

PROJECT

Heart Disease Risk Prediction (Ensemble Machine Learning)

- Built a stacked ensemble classifier (Random Forest, Logistic Regression, Gradient Boosting) achieving AUC-ROC: 0.97, F1: 0.95, and Recall: 94%, ensuring accurate detection of high-risk patients.
- Boosted F1 by ~20% over baseline through pipeline engineering (categorical encoding +4%, imputation +5%, KMeans risk binning +6%) and hyperparameter tuning (+6%).
- Deployed via Flask for real-time, millisecond-level predictions, enabling seamless integration into clinical decision support workflows.
- Improved reliability of early risk detection could cut undiagnosed high-risk cases by ~25%, supporting scalable, preventive healthcare initiatives.

Alzheimer's Stage Prediction Using Deep Learning

- Developed a CNN model to classify MRI scans into 4 Alzheimer’s stages, achieving 95% accuracy.
- Boosted generalization by +13% via transfer learning, dropout, and data augmentation.
- Increased sensitivity (+12%) and specificity (+10%), improving the reliability of early-stage diagnosis.
- Processed 44k+ MRI scans, demonstrating scalability for real-world healthcare applications.

EDUCATION

Bachelor in Computer Science and Engineering

University of Liberal Arts Bangladesh (ULAB)·688 Beribadh Road, Mohammadpur, Dhaka - 1207, Bangladesh·2025·CGPA 3.50

COURSEWORK

Machine Learning with Python

Coursera • 2024

Data Visualization with Python

Coursera • 2025

Deep Learning and Reinforcement Learning

Coursera • 2024