

## Contact

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## Skill

**Machine Learning:** Supervised & Unsupervised Learning, Reinforcement Learning, k-NN, Linear Regression, CNNs, TensorFlow, Scikit-learn

**Programming Languages:** Python

**NLP & Computer Vision:** Text Classification, Image Recognition, TensorFlow Lite

**Data Science:** Data Analysis, Feature Engineering, Time Series Forecasting, Data Visualization (Matplotlib, Seaborn)

**Development Tools:** VS Code, Android Studio, PyBullet

**Cloud & Deployment:** TensorFlow, Lite, AWS

**Version Control:** Git, GitHub

## Certifications

**Supervised Machine Learning: Regression and Classification** — Stanford University (Online)

**Advanced Learning Algorithms** — Stanford University (Online)

**Unsupervised Learning, Recommenders, Reinforcement Learning** — Stanford University (Online)

**Data Analysis Fundamentals** — Udacity

# Abenezer Alemayehu

Machine Learning Engineer

## Professional Summary

Results-driven Machine Learning Engineer experienced in building and deploying AI models for real-world applications. Proven ability to deliver impactful solutions and optimize machine learning workflows, with a focus on translating complex AI concepts into functional, user-centered products

## Work Experience

Machine Learning Engineer — Independent Projects

- **Developed and deployed** a Spam Email & SMS Detector using TensorFlow Lite, integrating the model into an Android app — achieving **98% accuracy** by implementing feature extraction, hyperparameter tuning, and real-time inference.
- **Engineered** a Potato Disease Classification System utilizing CNNs to identify plant diseases, increasing detection accuracy by 15% through data augmentation and transfer learning.
- Designed and trained an 8x8 Dama game environment with Q-learning, improving the AI agent's winning rate by 40% through optimized exploration strategies.
- Classified tweets in the Natural Disaster Tweet Classification Kaggle competition, using NLP and Scikit-learn, achieving a top 15% ranking by refining text preprocessing and model ensembling strategies.

Kaggle Competitor

- **Analyzed and predicted** customer transactions in the *Santander Customer Transaction Prediction* competition using advanced machine learning models — securing improved leaderboard positions through cross-validation and feature engineering.
- **Predicted passenger survival** in the *Spaceship Titanic* challenge by building robust classification models, incorporating feature scaling and ensemble learning techniques.

Demonstrated the ability to translate complex machine learning concepts into functional, real-world applications — boosting model performance, optimizing deployment, and enhancing user experience.

## Education

**B.Sc. in Computer Science and Engineering**

Adama Science and Technology University, Ethiopia

*Expected Graduation: 2026*