

# MAAZ ALI

## AI Student — Efficient AI & Computer Vision

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### SUMMARY

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Undergraduate AI student focused on efficient AI and computer vision. Builds machine learning systems end-to-end — from first-principles algorithm implementations to deployed, production-style applications with APIs and interactive front ends. Comfortable across the ML lifecycle: data preprocessing, model training, containerization, and cloud deployment.

### EDUCATION

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#### Bachelor of Science in Artificial Intelligence

University of Malakand, Pakistan

2025 — 2029 (Expected)

### TECHNICAL SKILLS

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**Languages:** Python, C++

**ML & Data:** NumPy, Pandas, Scikit-learn, Jupyter

**Deployment & MLOps:** FastAPI, Streamlit, Docker, Vercel, Hugging Face Hub

**Tools:** Git, GitHub, VS Code, Kaggle

### PROJECTS

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#### Titanic Survival Predictor — End-to-End ML Application

- Trained a classification model and served it through a FastAPI backend deployed on Vercel, paired with an interactive Streamlit front end for live predictions.
- Covered the full pipeline: data preprocessing, model training, API design, and cloud deployment.
- [Live app](#) · [API](#) · [Source](#)

#### ML Algorithms From Scratch

- Implemented core machine learning algorithms in pure Python and NumPy, without relying on libraries, to build a first-principles understanding of gradients and update rules.
- [Repository](#)

#### End-to-End ML Projects

- Maintains a growing collection of production-ready ML projects spanning preprocessing, training, Streamlit apps, Docker containers, and cloud deployments.
- [Repository](#)

#### Xchanger — Published Python Package

- Built and published a Python package to PyPI that fetches live currency exchange rates and exports them to Excel, CSV, or JSON.
- [PyPI](#) · [pip install Xchanger](#)