

Abdelrahman Elsawy

abdelrahman.elsawy1997@gmail.com | github.com/AbdelrahmanElsawy404

Education

Technische Universität Dortmund

Oct 2022 – 2027 (Expected)

Bachelor of Science (B.Sc.) in Computer Science

Dortmund, Germany

- Relevant topics include algorithms, data structures, probability, linear algebra, statistics, and machine learning.
- Building personal projects in data analysis, natural language processing, and image classification.

Projects

Sentiment Analysis System

2026

Natural Language Processing

[Repository Link](#)

- Compared the VADER sentiment model with a transformer-based RoBERTa model on customer reviews.
- Used Python, NLTK, PyTorch, and Hugging Face Transformers to prepare data and evaluate predictions.

Cats vs. Dogs Classifier

2026

Deep Learning Image Classification

[Repository Link](#)

- Built and trained a Convolutional Neural Network using TensorFlow and Keras to classify images as cats or dogs.
- Used data augmentation and batch normalization and achieved approximately 82.5% validation accuracy.

Housing Price Predictor

2026

Ensemble Regression Pipeline

[Repository Link](#)

- Prepared housing data with missing-value handling, encoding, and scaling for regression models.
- Compared several estimators and used a stacking regressor, reaching a cross-validated RMSE of 0.117.

Skills

Languages: Python, SQL

Libraries & Frameworks: Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch, Matplotlib, Seaborn

Developer Tools: Git, GitHub, Jupyter Notebook, VS Code