

# IBRAHIM ABDO

Data Science & AI Student

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## PROFILE

Data Science student at BUAS with hands-on experience in machine learning, Python, and data engineering. Passionate about building practical ML solutions to real-world problems. Proven ability to deliver end-to-end projects across computer vision, NLP, predictive maintenance, and data warehousing. Continuously expanding expertise in deep learning, MLOps, and production systems.

## EDUCATION

**B.Sc. Applied Science in Data Science & Artificial Intelligence** | Breda University of Applied Sciences (BUAS)

*Expected 2027*

*Breda, Netherlands*

## LANGUAGES

Arabic (Native) • Turkish (B2) • English (B2) • Dutch (A2)

## SKILLS

**Data Analytics & Visualization:** Power BI (Advanced), Matplotlib, Seaborn, Plotly, Hypothesis Testing

**Machine Learning & AI:** Supervised & Unsupervised Learning, Deep Learning, Time-Series Forecasting, Anomaly Detection, Scikit-learn, PyTorch, TensorFlow, Hugging Face

**Computer Vision:** Image Classification, CNNs, Image Segmentation (U-Net), Object Detection, Data Augmentation, OpenCV

**NLP:** Text Processing, Transformers, BERT, Machine Translation, Emotion Classification

**Data Engineering & Databases:** PostgreSQL, SQL, Data Warehousing, ETL Pipelines, Time-Series Data Management, pyscopg2

**MLOps & Deployment:** Docker, FastAPI, Azure ML, MLflow, Experiment Tracking, Model Versioning, Poetry, Pytest

**Reinforcement Learning:** Policy Gradient Methods (PPO), Robot Control, Markov Decision Processes, Gym

**Research & Statistics:** Mixed-methods Research, Survey Design, Qualitative Analysis, GDPR Compliance

**Collaboration & Tools:** Git/GitHub, Agile Scrum, Kanban, Team Project Management, Client Communication

**Programming:** Python (Core), SQL, Jupyter Notebooks, Markdown

## PROJECTS

**Dynamic Object Recognition & Eye-Tracking** | Breda University of Applied Sciences 2025

- Pupil Labs Neon gaze data pipeline merged with YOLO object detection for cyclist attention analysis.
- Built full end-to-end notebook: gaze CSV merge, bounding-box linking, annotated video and CSV output.

**Predictive Truck Maintenance** | Van Tilburg-Bastianen (DAF Dealer) 2024–2025

- Real-time ML model predicting truck failures using ensemble anomaly detection (Isolation Forest, AutoEncoder, LOF, One-Class SVM) + XGBoost on 1.37M service records.
- Achieved ~79.65% accuracy and 86.31% ROC-AUC. Delivered Docker-based production MLOps pipeline.
- Produced SHAP explainability analysis, GDPR/EU AI Act compliance documentation, and stakeholder reports.

**ANWB Safe Driving Data Warehouse** | ANWB 2024

- PostgreSQL data warehouse integrating telematics, weather, and traffic data with full ETL pipelines.

- Implemented time-series alignment and data quality checks for a real client project.

**Football Talent Scout AI** | NAC Breda 2024

- ML-powered player analysis system using Wyscout data with K-Means clustering, regression models, and PCA.
- Delivered goalkeeper and position-based performance segmentation and market value prediction.

**ASL Image Classifier** | Academic Project 2024

- Real-time American Sign Language recognition model using CNN-based image classification.
- Designed for workplace accessibility to support deaf and hard-of-hearing employees.

**NLP Emotion Classifier** | Academic Project 2023

- Text emotion classification model deployed on Azure ML via FastAPI and Docker.

**Plant Root Segmentation** | Academic Project 2023

- U-Net segmentation with PPO robot control for Openrons OT-2 automation in PyBullet simulation.

## OTHER EXPERIENCE

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**Baliedienst (Service Desk)** | DHL Zevenhuizen *Aug 2025 – Present*

- Process incoming/outgoing shipments, handle customer inquiries, and resolve parcel issues at the depot service desk.
- Maintain high accuracy and customer service standards in a fast-paced logistics environment.

**Logistics Driver** | DHL Zevenhuizen *Jul 2024 – Nov 2024*

- Collected, sorted, and delivered high-volume parcel routes with strong time-management and route efficiency.
- Maintained delivery records and full compliance with safety procedures.

**Shift Manager** | Gaptas Plastik *Apr 2016 – Aug 2021*

- Progressed from production worker to Shift Manager, supervising three daily shifts and a team of three.
- Implemented KPI monitoring and scheduling improvements to boost output consistency and handover quality.

**Waiter** | Babel Cafe *Oct 2015 – Apr 2016*

- Served up to 150 customers on busy Saturdays, delivering personalized service in a high-paced environment.

**Injection Machine Operator** | Burak-Plastik *Apr 2015 – Oct 2015*

- Operated injection molding machinery producing parts every 20 seconds with minimal defects.