



ENES SEJDINI

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Profile

Data Science Master's student at Lancaster University Leipzig with a background in Computer Science and Software Engineering. Strong foundation in Python, data analysis, and machine learning, with professional experience in technology-driven digital solutions. Actively seeking a Master's thesis internship or working student position in Data Science, Analytics, or Machine Learning in Germany.

Education

MSc Data Science

Lancaster University Leipzig

Oct 2025 – Present

Leipzig, Germany

- **Relevant Coursework:** Machine Learning, Statistical Methods, Data Mining, Big Data Analytics, Databases, Data Visualization
- **Research Interests:** Predictive Modeling, Natural Language Processing, Time Series Analysis, Recommender Systems

BSc Computer Science (Software Engineering)

South East European University

2018 – 2022

Tetovo, North Macedonia

- **Grade:** 7.92/10
- **Focus Areas:** Software Engineering, Programming, Databases, Algorithms

Technical Skills

Programming	Python (Pandas, NumPy, scikit-learn, Matplotlib, Seaborn), SQL, Git, R (basic), PHP, Kotlin
Data Science	Data cleaning, exploratory data analysis (EDA), feature engineering, model evaluation, cross-validation, statistical analysis
ML Methods	Regression, classification, clustering, dimensionality reduction, ensemble methods (Random Forest, XGBoost, KNN)
Tools & Platforms	Jupyter Notebook, VS Code, Android Studio, Linux (basic), Power BI, Docker (basic), MySQL

Projects

KNN Classifier: From-Scratch vs Scikit-learn Comparison

Python, scikit-learn, R, pytest

- Built a complete K-Nearest Neighbours classifier from scratch implementing Euclidean/Manhattan distance metrics and uniform/distance-weighted voting schemes
- Ran 672 experimental configurations across 5 datasets (Iris, Wine, Digits, Breast Cancer, Nursery) comparing custom implementation against scikit-learn
- Achieved near-identical accuracy (92.1% vs 91.5%) while scikit-learn ran 484x faster due to optimized KD-tree data structures
- Conducted statistical analysis in R using Wilcoxon signed-rank tests and multiple regression to identify performance predictors
- Generated decision boundary visualizations confirming algorithmic correctness across different k-values

Abalone Age Prediction – Comparative ML Study

Python, scikit-learn, XGBoost, SHAP, Hyperopt

- Compared statistical (Polynomial Regression with Lasso) and algorithmic (XGBoost) models for predicting abalone age from morphological measurements
- Engineered biologically-motivated features (meat ratio, viscera ratio) and applied Lasso regularization, reducing 90 polynomial terms to 26 key predictors
- Implemented nested k-fold cross-validation and Hyperopt with TPE for hyperparameter tuning

- Achieved $R^2 = 0.6151$, $MAE = 1.54$ years with XGBoost; applied SHAP analysis for model interpretability

Ripeocado – Avocado Ripeness Detection Android App *Kotlin, Python, CameraX, Random Forest*

- Developed an Android application that classifies avocado ripeness (not ripe, ripe, overripe) using camera input
- Built ML pipeline: created synthetic dataset through image augmentation (3 → 120 images), trained Random Forest model on color features, and exported model logic to pure Kotlin for on-device inference
- Implemented CameraX integration with real-time blur detection, auto-flashlight, and precise circular cropping for stem area capture
- Designed custom camera overlay with nested alignment guides to ensure captured images match training data characteristics

Si Nshpi Tane – House Maintenance Web Platform (Bachelor's Capstone) *PHP, MySQL, JavaScript, Bootstrap*

- Developed full-stack web application connecting diaspora homeowners with service providers in North Macedonia
- Implemented three-tier architecture with responsive Bootstrap UI, PHP business logic with secure authentication, and normalized MySQL database schema
- Deployed on Apache Web Server; conducted market research to identify gaps in existing platforms

Professional Experience

Senior Digital Learning Consultant

LEORON Institute

Dec 2022 – Jan 2026

Dubai, United Arab Emirates

- Worked with technology-driven learning platforms, translating business requirements into technical specifications
- Supported solution integration projects with client LMS systems and coordinated with cross-functional teams
- Tracked platform performance metrics using data-driven reporting dashboards for strategic decision-making
- Analyzed user engagement data and learner behavior patterns to identify platform improvement opportunities

Volunteer – Youth Resource Center

iCan

Oct 2021 – Jul 2022

Gostivar, North Macedonia

- Coordinated strategic partnerships and supported youth employability programs focused on skills development
- Contributed to IT infrastructure management and process improvement initiatives

Crew Member

McDonald's

Jun 2019 – Oct 2019

Castle Rock, Colorado, USA

- Worked in a fast-paced environment handling customer service, food preparation, and team coordination
- Developed strong communication and time management skills while maintaining quality standards

Certifications

- **Skills That Set Data Scientists Apart** – LinkedIn Learning (Jan 2026)
- **Intercultural Communications in the Workplace** – The London School of Economics and Political Science (LSE) (Jul 2025)
- **Foundations in AI** – IBM (Apr 2025)
- **Leadership and Communication** – HarvardX (2023)

Languages

Albanian (Native) • English (Native) • Turkish (Professional) • Macedonian (Professional)

Hobbies & Interests

Passionate about cars. I spend a lot of time playing car dealer simulators and customizing vehicles online. My dream is to one day work with an automotive brand on their racing performance data and build my own private car collection.

Beyond cars, I love cooking and trying new recipes, taking long walks to clear my head, spending quality time with my loved ones, and brainstorming random ideas for side projects I could build.

Weird but sometimes missused trait that i have: I never like to work alone in my projects, even if the idea is mine.