

# AHMET BERK CALISIR

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Data-Science & Analytics Intern | M.Sc. Data Science & Engineering @ Politecnico di Torino |  
*Passion for turning messy data into deployable insights*

## Education

### Politecnico di Torino — Turin, Italy

- Master of Science in Data Science and Engineering (Dec 2024 – present)
- Bachelor of Science in Computer Engineering (Sep 2020 – Dec 2024)

## Technical Skills

**Operating Systems:** Linux (Ubuntu, Debian) – shell scripting, package management, system admin basics | Windows 10/11 – PowerShell, WSL setup for data-science work | macOS – Homebrew, zsh, development environment setup

**Programming:** Python (NumPy, pandas, scikit-learn, PyTorch, matplotlib) | C/C++ (basic systems programming, performance kernels) | Java OOP (Apache Spark jobs, JVM tooling) | MATLAB (signal processing coursework) | JupyterLab / VS Code / PyCharm | Git & GitHub / GitLab CI/CD | Apache Spark (PySpark) | Power BI | Anaconda / conda-env management | BeautifulSoup

**Database Management:** MySQL, MS SQL Server, Oracle | BigQuery | MongoDB | Neo4j | Microsoft Excel (pivot tables, Power Query, Power Pivot, VBA macros)

**Languages:** Italian (conversational), Turkish (native), English (fluent)

IELTS Academic Score: 8.0/9.0 · 2024

## Experience

### Maserati (Stellantis) — ETL / Data Management Intern | Oct 2023 – Apr 2024

Maserati, based in Modena, Italy, is a renowned luxury automotive brand known for its high-performance sports cars.

- Automated Visual BOM creation (Excel VBA + Java), saving engineers ~20 min per vehicle revision
- Designed Excel → SQL → Power Query → Power BI pipeline; delivered cost-optimization dashboards viewed by 5 managers weekly
- Informed managers on procedures involved with usage of the plugin, on the creation and maintenance of the Power BI pipeline

- Database management using Excel, Access, and an in-house software plugin

#### **Kaya Yapı Group — Data Analysis Intern | Jun 2021 – Sep 2021**

Construction company operating in Central Anatolia, Turkey, focusing on Government Construction Tenders for bridges, thermal plants, and electric power lines.

- Converted manual financial reports into Excel VBA macros; cut prep time from 15-20 min to 4 clicks
- Collaborated with the financial team to model cost drivers for next-quarter tenders; contributed KPI deck to CFO

#### **Meliora — Volunteer Mentor | Aug 2020 – Jun 2021**

Meliora is an educational company helping Turkish students gain international education and career opportunities.

- Introduced Turkish middle/high schoolers to basics of programming, English, and productivity tools
- Taught Python to 36 students over 6 months (up to pointers)
- Built controllable vehicles with students using LEGO and Arduino

## **Projects**

#### **Age Prediction from Audio Samples — Python, PyTorch, Librosa**

- Developed a machine-learning pipeline to predict a speaker's age from vocal characteristics using acoustic and linguistic voice features
- Preprocessed a noisy dataset of 3,624 audio samples, addressing class imbalance through weighting and oversampling techniques
- Built a voice-feature ML pipeline and benchmarked XGBoost/CatBoost/Random Forest, cutting RMSE to 9.36

#### **PCA on Marketing Surveys — Python, scikit-learn**

- Implemented a full PCA pipeline on a high-dimensional survey dataset, including preprocessing and hybrid deletion/imputation
- Performed dimensionality reduction, variance studies, explained-variance visualization, and K-means clustering for interpretability
- Reduced 100+ behavioral features to 5 latent factors explaining 78 % of variance, enabling faster clustering for stakeholder insights