

# Ata Berk KARABAG

Master's student in Data Science and AI — Available for a 6-month internship starting 16 January 2026

## CONTACT

- +33 06 95 60 58 44
- ataberk.karabag@gmail.com
- Strasbourg, France



## PROFILE

Curious and analytical Master's student in Data Science and Artificial Intelligence, with a strong interest in learning and applying modern AI techniques. I have completed several group projects during my studies, particularly in deep learning, and received strong academic results. My experiences have strengthened my ability to collaborate effectively in team settings. I am currently seeking internship opportunities to further develop my skills and contribute meaningfully to real-world projects.



## PROJECTS

### Interactive Agricultural Parcels Explorer with LLM

- Co-developed (team of four) a web application for exploring French agricultural parcels data
- Designed interactive dashboards combining geospatial visualization and parcel-level statistics
- Integrated an LLM-powered text-to-SQL assistant allowing natural-language queries for data retrieval and filtering
- Implemented a Dash / Plotly front-end connected to a PostgreSQL + PostGIS database
- Focused on scalability, map interactivity, and seamless user experience for complex spatial datasets

### Stock Market Forecasting using LSTM and Transformers

- Built predictive models on historical stock market data using LSTM and Transformer architectures
- Compared the performance of both models using metrics such as RMSE and MAE
- Analyzed results and explained differences in performance based on model architecture
- Worked in a group of 3, actively contributing to model development and presentation

### Water Quality Clustering and Spatial Interpretation

- Analyzed French water quality data (RCS stations) using unsupervised clustering
- Cross-referenced clusters with a biological index (I2M2) and created spatial visualizations with CORINE Land Cover
- Observed meaningful geographic clustering patterns suggesting environmental influence

### Crop Type Classification from Satellite Image Time Series

- Classified agricultural crop types using monthly satellite images per field
- Compared several classification approaches and architectures, including model ensembles
- Analyzed the temporal dynamics of pixel data to improve classification performance

## EDUCATION

### Université de Strasbourg

Master's in Data Science and AI

September 2024- June 2026

### Université Sorbonne Paris Nord

Bachelor's degree in computer science - Graduated in the top 10% of the class

September 2021- July 2024

## EXPERIENCE

### Back End Developer Intern

Vestel - Izmir/Turkey

- Contributed to the development of a project using AWS
- Cloud and Python
- Debugging the code and documenting the processes,
- Enhancing the project's efficiency and maintainability.
- Worked in a large corporate environment

## SKILLS

**Programming & Tools:** Python, SQL, R, C, C++, Java, JavaScript

**Libraries & Frameworks:** pandas, NumPy, scikit-learn, PyTorch, TensorFlow, matplotlib, seaborn

**Tools:** Git, GitHub, Jupyter, Google Colab, VS Code

**Concepts:** Supervised & Unsupervised Learning, CNNs, Transformers, Clustering, Time series

**Soft skills:** Strong communication, team collaboration, group project experience

**Languages:** English (fluent), French (fluent), Turkish (native)