

Ahmet Erdem YENIAY

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● ABOUT ME

After completing my bachelor's degree in Industrial Engineering, I worked as an IT and Reporting Engineer and a Production Planning Engineer. Over time, I realized that working with data and creating analytical solutions always excited me, which led me to shift my focus to this field. To pursue this passion, I attended a six-month language program at the University of Arkansas in the USA, followed by earning a master's degree in Data Engineering at Jacobs (Constructor) University in Bremen, Germany. Currently, I work as a Data Engineer in the Artificial Intelligence Unit of the Ministry of Environment, Urbanization, and Climate Change in Turkey, where I enjoy leveraging the power of data to develop meaningful solutions.

● WORK EXPERIENCE

07/05/2024 – CURRENT Ankara, Türkiye
DATA ENGINEER MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE

- Data Collection and Management
- Data Analysis and AI Model Development
- Data Visualization and Reporting
- API Development and Integration

01/04/2023 – 31/12/2023 Hannover, Germany
WORKING STUDENT MTU MAINTENANCE

- Maintain and configure MTU's engine trend monitoring software
- Using APIs to aggregate data from ETM web-based application
- Improving the generation of engine-specific alarms
- Further development of data analysis and processing
- Performing special analyses in Excel or Python
- Supporting research work in aircraft operating documents on engine parameter monitoring

Department Engine Trend Monitoring | **Website** <https://www.mtu.de/de/ueber-uns/mtu-weltweit/mtu-maintenance-hannover/>

08/08/2017 – 08/03/2019 Erzurum, Türkiye
IT AND REPORTING ENGINEER PALANDÖKEN YATIRIM A.Ş.

- Creating weekly and monthly manufacturing reports
- Cost Analysis
- Capacity Reports
- Lean Manufacturing Activities

13/10/2016 – 31/07/2017 Istanbul, Türkiye
PRODUCTION PLANNING ENGINEER GÜNKO ENDÜSTRİYEL SİSTEMLER

- Following raw materials and semi-finished products
- Coordinating production workflow
- Determining manpower and equipment

- Collecting and processing data in the transportation planning and engineering sector
- Face-to-face interviews

● EDUCATION AND TRAINING

01/09/2021 – 24/01/2024 Bremen, Germany
DATA ENGINEERING Constructor University (previously Jacobs University)

Website <https://constructor.university/>

16/01/2020 – 26/07/2020 Fayetteville, AR, United States
INTENSIVE ENGLISH PROGRAM University Of Arkansas

Address UPTW 1 University of Arkansas, 72701, Fayetteville, AR, United States | Website <https://silc.uark.edu/iep/>

15/09/2010 – 23/01/2015 ERZURUM, Türkiye
BACHELOR'S DEGREE IN INDUSTRIAL ENGINEERING Ataturk University

Website <https://atauni.edu.tr/en/index>

● LANGUAGE SKILLS

Mother tongue(s): **TURKISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH (IELTS: 6.5)	C1	C1	C1	C1	C1
GERMAN	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

PYTHON | MS SQL | Machine Learning, NLP | Anaconda (Jupyter, Spyder) | REST API management | Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib. | Git, Git Hub, SVN | OpenAPI/Swagger | C# | MS Office (Word, Excel-VBA, Power Point) | Kaggle

● DRIVING LICENCE

Driving Licence: B1

Driving Licence: B

Driving Licence: D1

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Throughout my academic and professional journey, I have honed my communication and interpersonal skills through diverse interactions and collaborative projects. My strengths include:

- Teamwork:** Collaborated effectively with multidisciplinary teams to achieve common goals, ensuring efficient project completion.
- Flexibility:** Adapted to varying work environments and roles, demonstrating resilience and a positive attitude in dynamic settings.
- Clear Presentation:** Delivered clear and concise presentations, both technical and non-technical, to diverse audiences.

- **Good Writing:** Produced comprehensive reports and documentation, ensuring clarity and precision in conveying complex information.
- **Networking:** Built strong professional relationships, expanding my network and facilitating knowledge exchange and collaboration.

● PROJECTS

XAI Applications Based on Vehicle Characteristics (Master Thesis)

- **Objective:** Identify vehicle characteristics that significantly impact CO2 emissions using machine learning and XAI methods.
- **Data Collection:** 29-year dataset (1995-2023) from the Canadian government's Open Government Portal, including features like engine size, fuel type, and transmission type.
- **Methodology:** Data preprocessing, exploratory analysis, and application of Random Forest, Gradient Boosting, and SVR models.
- **XAI Techniques:** Use of SHAP, LIME, and ALIBI for model interpretability.
- **Key Findings:** Combined fuel consumption is the most significant factor affecting CO2 emissions; newer vehicle models show improved emissions.
- **Impact:** Supports policy development and technological advancements for environmental sustainability.

Natural Language Processing Approach to Map Text Documents

- Extracting Texts from PDF Files
- Extracting Keywords
- Visualizing Top N uni-grams, bi-grams & trigrams
- Ontology Matching
- Text Similarity
- Similarity Analysis of Ontology Classes and Keywords

Data Analysis and An Investigation of Statistical Structure in Marketing Data

- Mathematical Formalization of the Dataset
- Data Cleaning
- Customer Profile Analysis with Data Visualization
- Correlations Between Variables

Data Analytics on Various US Universities

- EDA and Data Preprocessing
- Data Visualization
- Feature Scaling
- Regression
- Classification

Stock Tracking System

- Data input, output, updating.
- Admin panel
- Login and Passwords creating
- Creating a QR Code on Visual C#

● IELTS TEST RESULT

30/11/2019

IELTS

Score: 6.5

- Speaking: 6.5
- Listening: 6.0
- Reading: 6.5
- Writing: 6.5

● LICENSES & CERTIFICATIONS

Learning VBA in Excel - LinkedIn Learning Certificate of Completion

Link <https://www.linkedin.com/learning/certificates/59f2aacdedfa445ae9dba34bf3f2aa39d661affa1f40c70d139c4f95dec37d0a>

Introduction to Data Science - LinkedIn Learning Certificate of Completion

Link <https://www.linkedin.com/learning/introduction-to-data-science-2/beginning-your-data-science-exploration>

SQL Essential Training - LinkedIn Learning Certificate of Completion

Link <https://www.linkedin.com/learning/sql-essential-training-3/understanding-sql>

Introduction to Computer Science - HarvardX - An Online Learning Initiative by Harvard University through edX

Link https://www.edx.org/course/introduction-computer-science-harvardx-cs50x?utm_source=google&utm_campaign=19315581336&utm_medium=cpc&utm_term=learn_cs50&hsa_acc=7245054034&hsa_cam=19315581336&hsa_grp=151058734289&hsa_ad=655859286692&hsa_src=g&hsa_tgt=kwd-200849cs50&hsa_mt=e&hsa_net=adwords&hsa_ver=3&gclid=CjwKCAjwhdWkBhBZEiwA1ibLmElini0R_eNn2PIMuZr3ngWphTSHuYWOo3vZl0EpxC