# Ozge Ozkaya 🔗

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## DATA SCIENTIST

Dynamic Data Scientist specializing in NLP and ML with expertise in developing ML/NLP pipelines and visualizations. Proficient in leveraging Python libraries (pandas, nltk, scikit-learn, tensorflow) for data processing, and implementing Transformer-based models and traditional ML/DL algorithms. Proven track record at UNDP in developing web products incorporating web scraping, data analysis, and visualization. Skilled in creating insightful Power BI dashboards to optimize client workflows.

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## KEY COMPETENCIES

- Data Collection & Web Scraping
- Data Analysis & Visualization
- Machine Learning
- Natural Language Processing (with LLM knowledge)
- Project Management
- Semantic Web Technologies

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## SOFTWARE SKILLS

- Python
  - Pandas, Numpy
  - NLTK, Spacy
  - Tensorflow, Scikit-learn, Keras
  - Matplolib, Seaborn
- Django
  - Django-q
  - Django celery
  - Django rest framework
- HTML/CSS/Javascript
- Power BI
- PostgreSQL, MongoDB
- Git/GitHub
- Protege, GraphDB
- Containerization (Docker)

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## PROFESSIONAL EXPERIENCE

**UNDP's Istanbul International Center for Private Sector in Development (ICPSD)**     **June 2021 - Present**
**Data Scientist**
Duties and responsibilities:
- Identifying the problems and tackles of the client and **producing AI based solutions**
- Implementing and coding **ML/NLP techniques with Python (pandas, nltk, numpy, spacy, scikit-learn etc.)** to build pipelines that includes data collection, data cleansing, data analysis and data visualization
- Developing **text classification, sentiment analysis, topic modelling and trend recognition models**
- Utilizing additional algorithms like **Logistic Regression, Decision Trees, NNs, LSTM** for various predictive modeling tasks
- Implementing **Large Language Models (LLMs)** using the **Transformer architecture** for advanced data analysis
- Developing **web sites based on Django for visualization purposes** when it is necessary
- Developing **Power BI dashboards** for internal/external projects

**Turk Telekom, Istanbul**     **Sep 2020 - March 2021**
**Jr. Software Engineer**
Duties and responsibilities:
- Contribution to the integration of Chatbot project
- Quailty check of the chatbot data

**American Air Radio, Ankara**     **June 2019 - Sep 2019**
**Data Science Intern**
Completed mandatory university internship as a Data Analyst. Sensor based data has been cleaned/analyzed and a predictive machine learning model has been created.

## EDUCATION

**Master's Degree in Data Science**                                    **Sep 2023 - Present**
**Vienna University of Technology, Austria**

**Bachelor's Degree in Computer Engineering**                          **Sep 2015 - June 2020**
**Cukurova University, Türkiye**
**GPA**: 3.06 / 4.0

## LANGUAGES

**Turkish**   Native Language

**English**   Full Professional Proficiency

**German**   Elementary

## REFERENCES

**Martin Szigeti**
Data Science Research Analyst at UNDP's ICPSD
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**Mert Atay**
Data Science Analyst at UNDP's ICPSD
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Senior Product Developer at Cue Health
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## PUBLICATIONS & ACTIVITIES

- **Tosun, E., Orhan, U., & Ozkaya, O. (2022, July). Intent Detection Using Contextualized Deep SemSpace. Springer Berlin Heidelberg, 1-12.**
  - Retrieve from here

- **Tulu, C., Orhan, U., & Ozkaya, O. (2021, January). Automatic Short Answer Grading with SemSpace Sense Vectors and MaLSTM. IEEE Access, pp. 1-1.**
  - Retrieve from here

- **Samsung Innovation Campus Artificial Intelligence for Sustainable Development Goals - 1st Place in the Competition**
  - +350 hours course focused on Artificial Intelligence with Python by Middle East Technical University (METU) (03/2022 - 07/2022)
  - **Project:** Wildfire Forecasting and visualization (1st place)
    - **Samsung Türkiye**: Video
    - **The Economist Impact Hub Article:** Spotting wildfire risks with AI technology
    - **The Economist Impact Hub Video**: Future is you

- **United Nations Volunteer Success Story**
  - UN Volunteer breaking gender barriers in data science

- **Erasmus+ Learning Mobility**
  - Participated to Erasmus+ Learning Mobility Programme in Bucharest, Romania (09/2017 - 02/2018)