

Berat Erkan Elcelik, Data Scientist

Herderstraße 62, Bremen, 28203, Germany, 04915510198308, elcelikberaterkan@gmail.com

Links

LinkedIn: <https://www.linkedin.com/in/beraterkanelcelik> **GitHub:** <https://github.com/beraterkanelcelik>

Profile

Key Skills & Technologies

- **Languages:** Python, C++, C, JavaScript, SQL
- **Frameworks & Libraries:** Vue.js, React.js, NumPy, Pandas, Matplotlib, Seaborn
- **Software Engineering Concepts:** OOP, Algorithms, Data Structures
- **Machine Learning:** Supervised & Unsupervised Learning, Time Series Analysis
- **Reinforcement Learning:** TD3 Algorithm, Multi-Agent & Single-Agent Training, Reward Engineering
- **NLP:** Text Classification, Tokenization
- **Data Science & Analytics:** EDA, Data Preprocessing, Feature Engineering
- **Cloud Platforms:** AWS, Azure
- **Version Control & CI/CD:** Git, Docker, Kubernetes
- **Database Management:** Microsoft SQL Server, MongoDB
- **Frontend Development:** Vue.js, React.js, HTML/CSS
- **Backend Development:** REST APIs, MVC Architecture

Employment History

Data Scientist, TAI - Turkish Aerospace Industries, Inc. <i>CGF Project – Autonomous Aircraft Development</i> <ul style="list-style-type: none">• Developed the web-based interface using Vue.js.• Worked on the software framework using Python and C++.• Focused on reinforcement learning for autonomous flight.• Implemented reward engineering to optimize training.• Conducted multi-agent and single-agent training.	08/2023 – 10/2024 Ankara, Turkey
Data Scientist (Part-Time), TAI - Turkish Aerospace Industries, Inc. <i>Working Student</i> <ul style="list-style-type: none">• Applied machine learning algorithms for anomaly detection.• Utilized reward engineering to ensure successful task completion.• Developed a reinforcement learning algorithm using TD3.	12/2022 – 08/2023 Ankara, Turkey

Education

University of Bremen <i>M.Sc., Artificial Intelligence and Intelligent Systems</i>	10/2024 – Present Bremen, Germany
Ankara University <i>B.Sc., Computer Engineering, GPA: 3.76/4</i>	10/2018 – 08/2023 Ankara, Turkey

Projects

Movie Recommendation System <ul style="list-style-type: none">• Developed a hybrid recommendation system using collaborative filtering (SVD) and content-based filtering.• Implemented real-time feedback integration with 100ms latency.• Designed the system with scalability, security, and GDPR-compliance.	10/2024 – 03/2025
--	-------------------

Certificates

IELTS <i>Listening: 7.5, Reading: 7.0, Writing: 6.0, Speaking: 7.5, Overall: 7.0 (CEFR Level: C1)</i>	09/2024 – 09/2026 Ankara, Turkey
---	-------------------------------------