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Umut Berkay Morsünbül

Professional Summary

Data Engineer with 5+ years of experience designing scalable data platforms and building robust ETL pipelines across cloud and hybrid environments. Skilled in Python, SQL, and AWS services with a strong focus on data governance and DevOps integration. Currently completing an M.Sc. in Data Engineering and Analytics at TUM.

Education

- 2022–2025 **M.Sc. Data Engineering and Analytics**, *Technical University of Munich (TUM)*, Munich, Germany (expected)
- 2014–2019 **B.Sc. Electrical and Electronics Engineering**, *Bahcesehir University*, Istanbul, Turkey, **Minor(Diplom) of Computer Science**, *Bahcesehir University*, Istanbul, Turkey
- Key Courses: Algorithms (A), Data Structures (B+), Database Systems (B+)

Experience

- Nov 2023 – Nov 2024 **Project-Based Full Stack & Algorithm Developer**, *AI-Lab, Bundeswehr University Munich*, Munich, Germany
- Developed front-end GUI using ViteJS, ROSLib, MapLibre for real-time data visualization
 - Integrated flight simulator data into ROS2 environment
 - Designed data processing solutions and connected eye-tracking systems
 - Tech: JavaScript, ROS2, X-Plane, MapLibre, ViteJS
- May 2023 – Sep 2023 **AI Developer & Data Engineer**, *Infineon Technologies*, Munich, Germany
- Developed ML/NLP models to enhance recommendation systems
 - Automated data preprocessing workflows using Python
 - Tech: Python, Seaborn, ML, NLP, ETL
- May 2022 – Oct 2022 **Senior Data Governance Engineer**, *QNB Finansbank*, Istanbul, Turkey
- Defined data ownership frameworks, governance KPIs, and quality metrics
 - Worked closely with DevOps for quality monitoring
 - Tech: Data Governance, Business Continuity, Compliance
- May 2021 – May 2022 **Senior Consultant – Information Governance**, *Plainex Technology*, Istanbul, Turkey
- Delivered POCs for Micro Focus tools (CM, CP, SDM)
 - Led post-sales support and client workshops
- Jul 2019 – May 2021 **Data Processing & Governance Engineer**, *Kafein Technology Solutions*, Istanbul, Turkey
- Developed scalable ETL pipelines and ensured data quality
 - Contributed to lakehouse and warehouse architecture improvements
 - Tech: Python, SQL, Data Vault, Data Lakes
- Sep 2018 – Jul 2019 **R&D Engineer (NLP)**, *CyanLog*, Istanbul, Turkey
- Built Turkish language detection and NLP-based correction systems
 - Applied ML and transfer learning techniques
 - Tech: Python, NLP, Transfer Learning, Custom Tokenizers

Projects

Personal Webpage Built a static portfolio with HTML, CSS, and JS during early web development learning.
<https://umutmor7.github.io>

Skills

Languages Python, SQL, JavaScript, Spark SQL, PySpark

Cloud & DevOps AWS (EC2, S3, RDS, Lambda, Glue), Docker, Git

Data Platforms ETL/ELT, Airflow, Databricks, DBT, Data Vault, Snowflake

Analytics Power BI, pandas, seaborn, Jupyter

Others Data Governance, NLP, Machine Learning, ROS2, Micro Focus (CM, CP, SDM)

Interests

Data Engineering, Data Infrastructure, Cloud Data Management, Web Scrapping, Distributed Systems Design, GDPR, Data Processing, AI Algorithms, Open Source Projects, Entrepreneurship, Continuous Learning, Collaboration

Availability

Notice Period None