

(536) 878-4750
Istanbul, Turkey
eroglugemen@gmail.com

Egemen Eroglu

Student / Data Engineer

Webpage: egemeneroglu.net
github.com/eroglugemen
linkedin.com/in/egemeneroglu/

SKILLS

Languages:	Python, C++, SQL, Unix/Linux Scripting, Git
Cloud Platforms & Databases:	Azure, Databricks, MongoDB, PostgreSQL, MSSQL, IBM DB2, IBM Netezza, Oracle DB
Data Engineering:	PySpark, Airflow, Airbyte, Spark, Kafka, RabbitMQ, IBM DataStage
Web Development:	Django, Flask, FastAPI, HTML, CSS

TECHNICAL EXPERIENCE

Data Engineer **Istanbul, Turkey**
Bosch GmbH *10/2023 — Present*

- Collaborated with cross-functional teams to integrate predictive maintenance and Remaining Useful Life(RUL) strategies into existing systems, resulting in a 25% improvement in equipment reliability.
- Created a recommendation system to analyze production data and optimize wheel design parameters, resulting in a 15% reduction in scrap rate during initial production runs.

DWH & Data Engineer Intern **Istanbul, Turkey**
Halkbank *07/2023 — 10/2023*

- Assisted in successfully completing the Netezza to Oracle migration project, contributing to a seamless transition for over 100 databases and ensuring minimal disruptions for end users.
- Streamlined data integration through IBM DataStage's ETL processes can deliver cost savings of up to 20% by optimizing resource utilization and reducing processing times.

ML Researcher **Istanbul, Turkey**
Koc University [Paper Link] *07/2023 — 07/2024*

- Conducted comprehensive data collection and analysis on international financial institutions, specifically the IMF, utilizing ML algorithms, NLP techniques, and statistical methods resulting in a 15% improvement in the accuracy of predicting the terms of IMF programs.
- Developed and implemented a machine learning model that accurately predicted loan sizes, number of IMF conditions, and waivers during program implementation, improving predictive power by 30% compared to traditional statistical approaches.

Data Engineer - Team Lead **England, United Kingdom**
Jeton Digital Ltd. *03/2023 — 06/2023*

- Led migrating legacy systems to a cloud-based infrastructure, resulting in a 40% reduction in infrastructure costs and improved scalability and performance.
- Collaborated with stakeholders to design and optimize the data architecture, resulting in a 20% reduction in data storage costs.

Data Engineer **England, United Kingdom**
Jeton Digital Ltd. *09/2022 — 03/2023*

- Designed and maintained a database backup and recovery plan that ensured uninterrupted access to critical business data during system outages, reducing downtime by 70%.
- Created ETL processes with Apache Airflow, and loading of 1.5M rows of data daily into the company data warehouse; saved the team 20+ hours of manual work per week.

ML Researcher **Istanbul, Turkey**
Bahcesehir University *01/2023 — 06/2023*

- Supervised by Assoc. Dr. Tefvik Aytekin, the Machine Learning and Recommendation Systems Research Group researches machine learning and recommendation systems.
- Collaborated with a team of researchers to develop and implement a recommendation system in C++.

Data Scientist Intern **Istanbul, Turkey**
SmartOpt *07/2022 — 08/2022*

- Designed Python optimization model to generate optimal production plans, resulting in a 15% increase in profits while reducing environmental impact by 20%.
- Conducted extensive data analysis and statistical modeling to identify key factors driving customer churn, leading to the development of targeted retention strategies that reduced churn rate by 10%.

EDUCATION

Bahcesehir University , <i>Computer Engineering</i>	10/2022 — Present
Istanbul University , <i>Management Information Systems</i>	10/2022 — Present
Beypkent University , <i>Computer Engineering</i>	10/2020 — 06/2022