Egemen Eroglu
Student / Data Engineer

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SKILLS

Programming Languages:	Python, Unix / Linux Scripting
Cloud Platforms & Databases:	Azure, MongoDB, PostgreSQL, Microsoft SQL Server
Data Engineering:	Databricks, PySpark, Airflow, Spark, Kafka, RabbitMQ, Pandas, Polars
Web Development:	Django, Flask, FastAPI, HTML, CSS

TECHNICAL EXPERIENCE

Data Engineer   **Istanbul, Turkey**
Bosch GmbH   *10/2023 — Present*
- Spearheaded the implementation of predictive maintenance strategies, leveraging machine learning models, resulting in a 20% reduction in unplanned downtime and a substantial increase in equipment lifespan.
- Implemented robust data integrity measures, ensuring the accuracy and consistency of critical datasets. Improved data quality metrics by 30%, enhancing the reliability of decision-making processes across the organization.

DWH & Data Engineer Intern   **Istanbul, Turkey**
Halkbank   *07/2023 — 10/2023*
- Assisted in the successful completion of the Netezza to Oracle migration project, contributing to a seamless transition for over 100 databases and ensuring minimal disruptions for end users.
- Developed and executed ETL processes using IBM DataStage, resulting in a 40% reduction in data integration time.

ML Researcher   **Istanbul, Turkey**
MA-Computational Social Science Lab - Koc University   *07/2023 — Present*
- 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 (ML) 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   **Redbourn, England, United Kingdom**
Jeton Digital Ltd.   *03/2023 — 06/2023*
- Led the migration of 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   **Redbourn, 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%.
- Developed Python scripts to automate data extraction, transformation, and loading of 1.5M rows of data daily into the company data warehouse; saved the team 20+ hours of manual work per week
- Developed and deployed scalable web applications using Django framework, resulting in a 30% increase in user engagement and an average response time of <500 ms.

ML Researcher   **Bahcesehir University, Istanbul, Turkey**
BAU Machine Learning Research Group   *01/2023 — 06/2023*
- Supervised by Assoc. Dr. Tevfik Aytekin, the Machine Learning and Recommendation Systems Research Group conducts cutting-edge research in the fields of machine learning and recommendation systems.
- Collaborated with a team of researchers to develop and implement a novel recommendation system algorithm, resulting in a 20% increase in customer engagement on the company's platform.

Data Scientist Intern   **BAU Future Campus, Istanbul, Turkey**
SmartOpt   *07/2022 — 08/2022*
- Contributed to data-driven projects under the guidance of senior data scientists and analysts.
- Developed 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, *Computer Engineering*	10/2022 — Present
Istanbul University, *Management Information Systems*	10/2022 — Present
Beykent University, *Computer Engineering*	10/2020 — 06/2022