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Egemen Eroglu

R&D Specialist

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SKILLS

Programming Languages:	Python, SQL, Unix/Linux Scripting, Git
Cloud Platforms & Databases:	Azure, Databricks, MongoDB, PostgreSQL, MSSQL, MySQL, IBM DB2, Oracle DB
Data Engineering:	Airflow, Airbyte, Spark, dbt, Kafka, RabbitMQ, IBM DataStage, Docker
Machine Learning:	Time Series Analysis, Anomaly Detection, Recommendation Systems, NLP
Data Visualization & Monitoring:	PowerBI, Tableau, Grafana, Prometheus, Elasticsearch, Logstash, Kibana (ELK Stack)
Web Development Frameworks & Tools:	Django, Flask, FastAPI, Streamlit, HTML, CSS

TECHNICAL EXPERIENCE

R&D Specialist <i>DHL Express</i>	Istanbul, Turkey <i>Apr/2025 – Present</i>
<ul style="list-style-type: none">Spearheaded the development of intelligent logistics solutions using NLP and semantic similarity to validate and standardize Turkish address data, improving delivery accuracy and automation efficiency.Collaborated with cross-functional teams to design digital twin prototypes for cargo operations, enabling real-time bottleneck detection and enhancing decision support through discrete event simulation.	
Data Engineer <i>Bosch</i>	Istanbul, Turkey <i>Oct/2023 – Mar/2025</i>
<ul style="list-style-type: none">Engineered AI-SCREP, an in-house AI-powered scrap reduction system, achieving up to 80% reduction in the defect rate in aluminum wheel production and delivering a theoretical improvement of 85.59% defects, saving up to €120K annually for clients.Implemented predictive maintenance and Remaining Useful Life (RUL) strategies using the Hilbert-Huang transform (HHT), significantly enhancing equipment reliability and operational efficiency.Designed and deployed a recommendation system tailored to minimize scrap during initial production runs, effectively supporting data-driven decision making for complex manufacturing environments.Built scalable Django applications supporting real-time data visualization and integration with PowerBI.	
DWH & Data Engineer <i>Halkbank</i>	Istanbul, Turkey <i>Jul/2023 – Oct/2023</i>
<ul style="list-style-type: none">Contributed to the seamless migration of 100+ databases from Netezza to Oracle with zero data loss.Developed and optimized ETL pipelines using IBM DataStage, enabling high-performance data integration across diverse systems.	
ML Researcher <i>Koc University</i>	Istanbul, Turkey <i>Jul/2023 – Jul/2024</i>
<ul style="list-style-type: none">Leveraged ML and NLP techniques to analyze international financial institution data, improving IMF program prediction accuracy by 92%.Developed a machine learning model for forecasting loan sizes and IMF conditions, achieving a 90% improvement in accuracy.	
Data Engineer - Team Lead <i>Jeton Digital</i>	England, United Kingdom <i>Mar/2023 – Jun/2023</i>
<ul style="list-style-type: none">Facilitated migration to cloud infrastructure, optimizing data stack to reduce costs by 40% and improve scalability.Collaborated with stakeholders to refine data architecture, achieving a 20% reduction in storage costs and enhanced resource efficiency.	
Data Engineer <i>Jeton Digital</i>	England, United Kingdom <i>Sep/2022 – Mar/2023</i>
<ul style="list-style-type: none">Designed a database backup, recovery, and retention policy, cutting downtime by 70%.Automated ETL workflows with Apache Airflow and Docker, saving 20+ hours weekly and processing 1.5 million rows daily.Developed a centralized Django-based web application to streamline data management and automate reporting tasks.	
Data Scientist Intern <i>SmartOpt</i>	Istanbul, Turkey <i>Jul/2022 – Aug/2022</i>
<ul style="list-style-type: none">Developed a Python based optimization model utilizing linear programming to streamline production planning, achieving notable gains in operational efficiency and resource allocation.	

EDUCATION

Bahcesehir University, Computer Engineering	Oct/2020 – Jan/2025
Istanbul University, Management Information Systems	Oct/2022 – Present

LANGUAGES

Turkish: Native or bilingual proficiency
English: Professional working proficiency
German: Elementary proficiency