

Yusuf Sami

+905446371676 | yusufsami4103@gmail.com | yusufsami | yusufsami9 | Istanbul, Turkey

EXPERIENCE

Volt Lines

04.2026 – Present

Operational Excellence Associate

Istanbul, Turkey

- Work on data-driven transportation planning problems involving passenger demand, time windows, vehicle availability, driver assignments, and regional routing constraints.
- Validate and improve route plans generated by the internal planning platform, resolving infeasible or inefficient routing outcomes to support service reliability and cost-efficient operations.
- Explore operational data through Metabase and SQL-based queries to analyze passenger-route assignment patterns, vehicle utilization, and opportunities for routing automation.
- Support launch and continuous improvement projects by translating operational requirements into planning actions, stakeholder follow-ups, and data-backed process improvements.

MEF University

02.2025 – 06.2026

Teaching Assistant – Operations Research

Istanbul, Turkey

- Assisted students in problem-solving sessions by providing guidance on operations research concepts and mathematical modeling.
- Supported course activities related to optimization models, linear programming, and analytical problem solving.

BİM Birleşik Mağazalar A.Ş.

07.2025 – 08.2025

Treasury and Finance Intern

Istanbul, Turkey

- Prepared and monitored daily cash flow reports by tracking inflows and outflows using Excel and SAP S/4HANA.
- Conducted data checks on financial transactions and supplier payments to support accuracy in reporting processes.

Kalibre Boru A.Ş.

07.2024 – 08.2024

Quality Control Engineer Intern

Kocaeli, Turkey

- Assisted in quality control checks and recorded measurements to verify product compliance with quality standards.
- Observed statistical process control methods used in quality management and production monitoring.

EDUCATION

MEF University

07.2022 – 01.2027

B.Sc. in Industrial Engineering, 100% Scholarship

Istanbul, Turkey

- **GPA:** 3.34/4.00
- **Minor:** Data Science and Artificial Intelligence
- **Relevant Coursework:** Modeling and Methods in Optimization, Operations Research, Simulation, Decision Analysis, Risk Analysis, Supply Chain Management, Production Planning and Control, Quality Engineering, Manufacturing Systems, Fundamentals of Machine Learning and Data Science, Fundamentals of Databases

Eindhoven University of Technology

08.2025 – 02.2026

Operations Management and Logistics, MSc-level Coursework

Eindhoven, Netherlands

- Erasmus+ Exchange Program
- **Relevant Coursework:** Large-Scale Optimization for Transport and Mobility, Decision-Making in Transport and Mobility, Business Analysis for IT Systems

PROJECTS

Routing Optimization: TSP and VRPTW | [GitHub](#) – Implemented Python and Gurobi models with MTZ/DFJ formulations, lazy subtour elimination, capacity constraints, time windows, and driver working time limits.

Charging Facility Location and Robust CVRP Optimization | [GitHub](#) – Built Gurobi models for CVRP, robust routing under demand uncertainty, capacitated charging facility location, and selfish vs. system-optimal routing.

Adaptive Large Neighborhood Search for PDPTW | [GitHub](#) – Developed an ALNS framework with destroy/repair operators, simulated annealing acceptance, and adaptive operator weighting.

Hospital Outpatient Simulation | [GitHub](#) – Developed a SimPy discrete-event simulation using real outpatient clinic data to analyze patient flow, resource utilization, and queue reduction opportunities.

SKILLS

Programming and Tools: Python, SQL, Gurobi, OR-Tools, MS Excel, Metabase, SAP S/4HANA, Minitab

Technical Skills: Optimization, Mathematical Modeling, Simulation, Data Analysis, Transportation Planning, Routing, Production Planning

Languages: Turkish (Native), English (Advanced)