Sinan Demirhan

Industrial Engineer - Data Scientist

Istanbul, Turkey 📍

sdemirhan1320@hotmail.com ✉️   +905545597134 📱   sinan-demirhan.github.io/ 🌐

tr.linkedin.com/in/sinan-demirhan in   github.com/sinan-demirhan 🔘

WORK EXPERIENCE

Data Scientist
Itelligence-BSH

02/2020 – Present

İstanbul, Turkey

- Made dealer segmantation and Sales Potential Analysis for BSH.
- Worked on Image Classification and Object Detection algorithm it.safe&social project at Itelligence.
- Maximization/Minimization algorithms are studied and worked to construct the best product portfolio mix.
- Minimization algorithms are studied and worked to dealer representative assignment project.
- Worked on Service and Education Recommendation project.

IT Intern
Uyumsoft Information Systems

06/2019 - 09/2019

İstanbul, Turkey

- This internship was a perfect experience for me regarding business life and learning how to use basic ERP modules.
- Managed CRM and HRM modules by updating the screen usability.

Production Intern
Talu Textile Industry and Trade Co.(LC WAIKIKI)

06/2018 - 07/2018

İstanbul, Turkey

- Observed all departments from raw material entering to packaging the final product.
- Completed a mini project about on the subject of pricing by using data science tools.

Product Management Intern
Fatih Okce Industry and Trade Co.

12/2017 - 02/2018

İstanbul, Turkey

- Included in the production and planning processes
- Developed the weekly production reports

EDUCATION

Bogazici University
BSc in Industrial Engineering

10/2016 - 02/2020

İstanbul, Turkey

- Object Oriented Programming and Data Structures with C++
- Capstone Project (Hydropower generation under climate change)
- Data Mining
- Supply Chain Management
- Quality Management with R
- Statistics and Forecasting with R
- Statistical Forecasting and Time Series
- Operations Research 1 and 2

PERSONAL PROJECTS AND CERTIFICATES

You can see my projects and certificates on my GitHub.

Projects and Data Science Related Activities

- COVID-19 Rshiny Dashboard

The objective of this project is to make a live Covid-19 dashboard by using Rshiny. You can see the live data for the world and some specific country maps. Some data visualizations were also done in this study.

- Courier Warehouse and Customer Simulation

By the help of object oriented programming, I constructed a courier simulation model in which according to user inputs, model works and returns some outputs like average order number for couriers, service mean time and average customer waiting time.

- Human and Distance Detection

Designed and developed by itelligence Turkey, This solution technology is based on real time streaming video from local cameras analyzed with Artificial Intelligence technology and it tracks safe social distance between people. The solution provides instant warning alarm when it detects an unusual situation in areas and enables safe working places.

- Training Recommendation

Created a model which aims to improve KPI scores of workers by recommending them the most suitable and effective trainings among some specific ones. By the help of this model, it is aimed to provide much more healthy recommendation to the workers.

- Product Sales Portfolio Optimization

According to the monthly planning product sales portfolios, we give much more profitable portfolio by the help of the optimization algorithms. Besides, we also provide a visualization on Tableau for the optimization results so that the user can easily take actions.

- Sales Representative to Dealer Optimization

Our aim here is to establish an optimal dealer assignment system in line with the desired purpose and constraints by minimizing the total distance to our dealers and assigning dealers with similar weights to the sales representatives

LANGUAGES

Turkish	English	Russian
Native or Bilingual Proficiency	*Professional Working Proficiency*	*Beginner Proficiency*

PROGRAMMING SKILLS, CONCEPTS AND TOOLS

- Python, R, SQL, Linux, Docker, Knime, RShiny, Netlogo, Coliop, Gams
- Machine Learning, Deep Learning, Object Oriented Programming, Computer Vision, Data visualization and analysis, Optimization, Time Series Analysis
- Tableau, AWS, Jira, Git, MS Office

HOBBIES

Cycling   Play piano   Football

Playing as a referee in the football matches

Bodyweight Workout   Sudoku and Brain