Hasan H. Yurdagül





WORK EXPERIENCE

Unsped Customs Consultancy

Lead Machine Learning Engineer

SEPT. 2021 - PRESENT

ISTANBUL/TURKEY

- · To score and grade leads with the best client match, modeled the present data with classification and regression algorithms
- · Modeled the present data with regression algorithms to calculate the customer lifetime value and customers' total spending
- The work done has let the company earn the funds provided to **cut 75% of expenses**

OxyAI

Lead Machine Learning Engineer

MAY, 2021 - PRESENT ISTANBUL/TURKEY

- Working on an image and text-based deep learning recommender system for the firm Collecteurs to recommend art pieces based on user's likes and traits
- · Implemented n collaborative filtering based audiobook recommender system for the Dinlebi which reduced the user churn rate by 35%
- · Reinforced in-use chatbots by implementing a Turkish sentiment classifier and sentence similarity algorithms with Bert

Universal Software

APR. 2021 - PRESENT ISTANBUL/TURKEY

Lead Research Scientist

- · Implemented a time series forecasting pipeline using Arima and Sarima algorithms to forecast monthly electricity demand
- · Implemented a time series forecasting pipeline with LSTM for ISKI to forecast the daily water consumption amount in Istanbul
- Developed a sentiment classifier using **TF-IDF** integrated classification pipelines to reinforce the in-use CRM system

CONSULTANCY EXPERIENCE

Datakod

JAN. 2022 - PRESENT ISTANBUL/TURKEY

R&D Center Consultant

- · Leading the data team to create anomaly detection and customer segmentation pipelines with clustering
- · Leading the data team in developing an association learning integrated recommendation engine to find the best possible sales strategies for the companies and stores

Nano Works

JAN. 2022 - PRESENT ISTANBUL/TURKEY

R&D Center Consultant

• Leading the research team in implementing a call center forecasting software to predict future received call counts and average call handling times based on previous occurrences of the data

Albert Solino

APR. 2021 - PRESENT ISTANBUL/TURKEY

R&D Center Consultant

· Leading the data science team to design and develop a **churn analysis** service that finds the best match between employees and the leads to reduce the churn rate of the customers

Kolavbi

JAN. 2022 - PRESENT ISTANBUL/TURKEY

R&D Center Consultant

- · Educating the team of software engineers to in the area of data science and machine learning
- · Leading the team of software engineers to create and design a deep and machine learning based time series forecasting software as a service

NOV. 2021 - PRESENT ISTANBUL/TURKEY

Synapsis Technology

Data Science Consultant

- · Leading the team of software engineers to create and design a deep and machine learning based time series forecasting software as a service
- · The work done has let the company earn the funds provided to cut 75% of expenses

DEC. 2020 - PRESENT ISTANBUL/TURKEY

Smartiks Software Inc. **Data Science Consultant**

- · Led the team of senior data scientists to design and implement a **time series** forecasting desktop application with deep and machine learning algorithms
- · The work done has let the company earn the funds provided to cut 75% of expenses

Protel

AUG. 2021 - APR. 2022 ISTANBUL/TURKEY

Data Science Consultant

- Educated the data science team of five in the area of **time** series forecasting
- Led the data science team of five in creating forecast pipelines to predict the future sales of different stores and products

AUG. 2020 - NOV. 2021

Teknorot Automotive Products Inc. Düzce/Turkey Data Science Consultant

• Designed and created a **hybrid supervised modeling** service that uses **time lags and data features** to forecast

sale amounts on different demanded products internationally

Comdata Group R&D Center Consultant

MAY. 2020 - SEPT. 2021 ISTANBUL/TURKEY

- Developed an AutoTimeSeries modeling software that used deep learning based time series algorithms in forecasting received call count and average call handling time to optimize call center work schedule
- Integrated a Deep Auto-Encoder architecture to detect and modify data outliers and anomalies before forecasting the future values, which helped to achieve more accurate results

EDUCATION

2016 – 2021

Bachelor of Engineering

Computer Engineering Çukurova University

PUBLICATIONS

- I. Hasan H. YURDAGÜL, Hatice ÖZDEMİR, Kenan ALAN, Adem SELLER, M. Fatih AKAY, and Sevtap ERDEM, "Water Consumption Forecast Models Using Time Series Based Deep Learning Methods," in 5. INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, 978-605-70978-3-5, 2022, pp. 1–215.
- M. Ballouch, F. Akay, S. Erdem, M. Tartuk, T. Nurdağ ve H. Yurdagül, "Forecasting Arrivals to a Call Center Using Supervised Machine Learning", International Conference on Interdisciplinary Applications of Artificial Intelligence (ICIDAAI'21) May. 2021, Yalova, TURKEY
- 3. M. Ballouch , F. Akay , S. Erdem , M. Tartuk , T. Nurdağ ve **H. Yurdagül** , "Forecasting Call Center Arrivals Using Machine Learning", Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi, c. 4, sayı. 1, ss. 96-101, Mar. 2021

Hepsi Emlak

SEPT. 2021 - MAY. 2022 ISTANBUL/TURKEY

R&D Center Consultant

- Wrote the funding proposal for a recommender system with Matrix Factorization based deep learning algorithms to recommend adverts based on users' past interests
- Wrote the funding proposal for an image classification project which is based around CNNs and Vision Transformers to showcase the images of adverts based on users' interests while searching for the new houses

AUG. 2020 - OCT. 2021 ISTANBUL/TURKEY

Sefamerve

Data Science Consultant

 Created a time series forecasting pipeline using LSTM with a relevant image similarity algorithm to forecast the future demand of newly produced products

> MAY 2020. - SEPT. 2021 ISTANBUL/TURKEY

Gtech Technology

Data Science Consultant

- Led the team of Senior data scientists to build a demand forecasting system for eCommerce sites to maximize their profits
- Taught a course on time series modeling with LSTM, RNN, MLP, and CNN algorithms and supervised learning with XGBoost and SVM algorithms

SKILLS

BEGINNER Rust, Haskell, Go

INTERMEDIATE C/C++, Javascript, Lua

EXPERT Linux, Python,

Tensorflow, Keras, PyTorch, Scikitlearn, Numpy, Pandas

REFERENCES

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