

Kubilay Yavuz

Data Scientist

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“Driven by the opportunity to learn more, motivated by challenges, my aim is to combine my business operations and research skills which I learned from my major with the data science skills which I learned by myself and with the sales, growth, marketing and product knowledge which I learned from my experiences.”

Summary

Data Analyst at Infarm. Bachelor of Science in Industrial Engineering. Attended to lots of data-oriented hackathons. This helped me deduce fast and robust output during a project, also, enhanced my knowledge about how the businesses' data related teams operate during the daily workflow.

Skills

Programming Python, R, SQL, C++

Tools Jira, Git, Power BI, Looker, Tableau, SAP Analytics Cloud

Packages Tensorflow, PyTorch, Requests, LightGBM, XGBoost, Catboost, Pandas, Keras, Numpy, scikit-learn, Tkinter, Seaborn, Flask, Matplotlib, OpenCV, pySpark

Concepts Deep Learning, Machine Learning, Computer Vision, Data visualization and analysis, Web Scraping, Big Data, Operations Research, Optimization

Cloud and DB Systems Google Cloud, Microsoft Azure, AWS, Amazon Redshift, MongoDB

Languages English(Advanced), German(Beginner), Turkish(Native)

Education

Boğaziçi University

Istanbul, Turkey

B.Sc. in Industrial Engineering

August 2015 - June 2020

- **Courses:** Data Structures and Object Oriented Programming, Systems' Statistical Modeling, Statistical Time Series Forecasting, Statistical Data Mining, Enterprise Database Systems Modeling, Operation Research with Optimization Methods, Statistical Inference

Work Experience

INFARM

Berlin, Germany

Data Analyst

July '21 - Current

- **Looker** dashboard deployments and creating data models
- B2C data centralization using **Python** and **Airflow**

Getir

Istanbul, Turkey

Data Scientist / Analyst

February '20 - July '21

- **ETL** and **cron jobs** using **Airflow**
- Generic shelf placement **optimization** of the warehouses
- Implemented **generic heuristics** and **CVRP** for courier routing
- Responding to the business department's adhoc requests, and deploying **Tableau** dashboards regarding their needs
- **Funnel analytics** using statistical models, and prediction of a person making an order (by debugging the app)
- **Campaign optimization** using ML and Tableau dashboards
- **Pricing** project for optimization of the products' prices using ML

Enqura IT

Istanbul, Turkey

Data Analyst Intern

June '18 - August '18

- Deployed **dashboards** with **Power BI** for an FMCG company
- Mostly **marketing** dashboards, such as **reach of ads** from **different channels** to different **people with different demographics**

LC Waikiki

Istanbul, Turkey

Computer Vision Researcher, Project-Based Contractor

June '19 – August '19

- **Objective:** Finding the type, color, pattern, gender, segment of the subject clothing from a picture of it, then searching through the database to find the most similar product to the subject clothing
- Utilized **Keras, Tensorflow**, matplotlib, pandas, deployed to web with Flask, variety of transfer learning models were utilized, achieved best result with **DenseNet121**
- **Image classification, Object Detection**

Projects, Publications & Courses

Meta-learning for Algorithm Ranking in Forecasting Tasks

Istanbul, Turkey

Python, R. Packages: Keras, Catboost, matplotlib, numpy, pandas, Scikit-learn

Jan 2020 - Sept 2020

- **The most accurate prediction of hourly electric consumption of Turkey** was our aim
- Implemented variety of forecast algorithms from basic to complex (Linear Regression, ARIMA, SARIMA, DT, GBDT, Neural Networks)
- Afterwards, created ranking models (pointwise loss, pairwise loss) to **predict the ranking of the forecast models**, so that the top best performing models could be chosen in order to increase metrics
- Graduation project. Our project advisor was Assistant Professor Mustafa Gökçe Baydoğan Ph.D.

BUYAK Data Analytics Challenge

Istanbul, Turkey

Mainly Used Python. Used packages: Keras, Catboost, matplotlib, numpy, pandas, Scikit-learn

Feb 2020

- Second place prize winner
- The ING Bank case was **prediction of state of the withdrawal part of the ATM in the next two weeks**. The case lasted 6 hours. During the case we manipulated raw data, conducted feature engineering, and deployed a classification model)
- The PepsiCo case included Time Series Forecasting, lasted one week on Kaggle

Teknofest Artificial Intelligence Competition 5th place

Istanbul, Turkey

Python, Used packages: Keras, keras-retinanet, Tensorflow, pandas

Feb 2019 - Sept 2019

- The projects time span was 7 months
- **Created an ensembled customized object detection model** detecting vehicles and pedestrians from drone footage of approx. 70-50 meters. (More info available on my github page.)

Turkish Airlines Travel Datathon

Istanbul, Turkey

Python, Used packages: Keras, LightGBM, Catboost, matplotlib, scikit-learn, pandas, SQL

Sept 2019

- Used **Catboost, Neural Networks, Linear Regression** to predict the passengers' count doing the specific flight
- The other case was related with database structure and design, pulling the specified flight from the database using SQL

LC Waikiki Datathon 2nd place

Istanbul, Turkey

Python, Used packages: Keras, LightGBM, pandas, matplotlib

Mar 2019

- Second place prize winner
- Used **LightGBM**, and **Keras** to classify whether a person will **churn** or not in the next period

Vestel V-Intelligence Computer Vision Competition

Istanbul, Turkey

Python, Used packages: Keras, Tensorflow, pandas, matplotlib

Jun 2019

- Detection of the care symbols attached to clothes (**Image detection**)
- The data consisted only of 1000 pictures, so instead of creating a new model, I used **transfer learning** to increase accuracy

Sackathon SAP Analytics Cloud Finalist

Istanbul, Turkey

Python, SAP Analytics Cloud | Pandas, scikit-learn

Mar 2019

- Objective was to create a **dashboard** for basketball coaches, players. The competition held online
- The final stage was held in Barcelona, We were invited to Barcelona. The event was organized by SAP and Euroleague
- During the final stage, we presented our projects to C-level managers of Barcelona, Sap, and Euroleague

Voluntary Activity

Turkey Technology Team Foundation

Istanbul, Turkey

Volunteer Mentor and Instructor

January 2020 - August 2020

Teaching middle-schoolers robotics, and basic AI, and mentoring them with their project to Teknofest.