# Kubilay Yavuz

DATA SCIENCE INTERN · SENIOR INDUSTRIAL ENGINEERING STUDENT

*Boğaziçi University Engineering Faculty*

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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."*

## Summary

Data Science Intern at Getir. 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

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|---|---|
| **Programming** | Python, R, SQL, C++, Linux Bash |
| **Concepts** | Deep Learning, Machine Learning, Computer Vision, Data visualization and analysis, Big Data, Operations Research, Optimiza |
| **Cloud and DB Systems** | Google Cloud, Microsoft Azure, Amazon Redshift, MongoDB |
| **Packages** | Tensorflow, PyTorch, CNTK, LightGBM, XGBoost, Catboost, Pandas, Keras, Numpy, scikit-learn, Tkinter, Seaborn, Matplotlib, OpenCV, pySpark |
| **Tools** | Jira, Git, Power BI, Tableau, SAP Analytics Cloud, MS Office |
| **Languages** | English(Advanced), German(Beginner), Turkish(Native) |

## Education

**Boğaziçi University**                                                                                    *Istanbul, Turkey*

B.Sc. IN INDUSTRIAL ENGINEERING                                                      *August 2015 - Expected 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

## Work Experience

**Getir**                                                                                                 *Istanbul, Turkey*

JUNIOR DATA SCIENTIST                                                                      *February '20 – Current*

- Working on the generic shelf placement optimization of the warehouses
- Implemented generic heuristics and CVRP for courier routing
- Side projects such as Churn Prediction, Analysis for other departments
- Heatmap visualization of the warehouses

**LC Waikiki**                                                                                          *Istanbul, Turkey*

COMPUTER VISION RESEARCH INTERN                                                     *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
- Used Keras, Tensorflow, matplotlib, pandas, deployed to web via Flask
- Made presentation to CDO and managers every week
- At the end of the project, deployment of the model to the mobile app was discussed

**Anadolu Efes Beverage Group**                                                             *Istanbul, Turkey*

BUSINESS SOLUTIONS INTERN                                                              *Dec '18 – Feb '19*

- Worked on the Salesforce's integration to the company.
- Mostly dealt with data protocols with the vendor.
- Integration of the dashboards from Qlik Sense to Salesforce

**Enqura IT**                                                              *Istanbul, Turkey*
Business Intelligence Intern                                               *June '18 – August '18*
- Worked on a large-scale FMCG company's data.
- Conducted feature engineering, data visualization using Power BI, and SQL.

## Projects, Publications & Courses

### Meta-learning for Algorithm Ranking in Forecasting Tasks            *Istanbul, Turkey*
Python, R. Packages: Keras, Catboost, matplotlib,numpy, pandas, Scikit-learn      *January 2020 - Current*
- Currently working on the prediction of the electric consumption of Turkey.
- Graduation project. Our project advisor is 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      *February 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.

### Serathonin – Capital Market Hackathon                                 *Istanbul, Turkey*
Python, Used packages: Keras, Catboost, LightGBM, matplotlib, pandas, SQL, Requests, Flask, TensorTrade      *October 2019*
- Created a machine learning backed personal dashboard for capital market investors.
- We used tweets and KAP news and made sentiment analysis, used RL and Decision Tree models, then created a basic dashboard with flask.
- We were provided with APIs.

### Teknofest Artificial Intelligence Competition 5th place              *Istanbul, Turkey*
Python, Used packages: Keras, keras-retinanet, Tensorflow, pandas      *September 2019*
- 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      *September 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      *March 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      *June 2019*
- Detection of the care symbols attached to clothes

### Sackathon SAP Analytics Cloud Finalist                               *Istanbul, Turkey*
Python, SAP Analytics Cloud | Pandas, scikit-learn      *March 2019*
- Objective was to create a dashboard for basketball coaches, players. The competition held online.
- The final stage was held in 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

## Extracurricular Activity

### Turkey Technology Team Foundation                                     *Istanbul, Turkey*
Volunteer Mentor and Instructor                                           *January 2020 - Current*
Teaching middle-schoolers Robotics, and mentoring them with their project to Teknofest.