Muhammed Büyükkınacı

Data Scientist

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About me

I am a T-shaped Data Scientist who has general knowledge experience on different IT areas such as Back-end Development, Data Engineering, Testing, System Engineering, Containerization etc. I have been coding in Python for more than 5 years. My passion is to extract insights value through Data Science techniques. I am not only an IT Engineer but also a life-long learner. I am able to create real-world Data Science projects in an end-to-end pipeline. I am trying to follow and implement SOLID principles as much as possible. I am also trying to integrate MLOps practices into my job.

Speaking of my personality, I am an extrovert, open-minded ambitious person. I also have excellent communication skills. I am using my soft and hard skills to be one of the best Data Scientists in the industry.

Education

2012 Sep
2018 Jan

Bachelor of Science, Industrial Engineering　　　**Boğaziçi University**

- Taking Data Mining & Time Series Forecasting courses as electives.
- Forecasting hourly electricity consumption of a specific region using different Machine Learning Algorithms in my graduation project.

Experience

Dec 2021
Present

Data Scientist　　　**HepsiEmlak**

- Creating various image processing, regression, segmentation & classification projects on image data.
- Building up a Fraud Detection System for Affiliate Marketing project.
- Using Pillow, PyTorch and Transfer Learning models to build up projects.
- Predicting realty prices (known as Automated Valuation Model) using Machine Learning.
- Actively using AWS, Kafka, RabbitMQ, Spark, Hadoop and Docker.

Oct 2019
Dec 2021

Data Scientist　　　**UrbanStat**

- Creating ML based risk scores for automobiles & houses for the use of insurance companies.
- Predicting wildfires and dangerous regions in California & West Coast of US using ML algorithms. Using SHAP library to present interpretable outputs.
- Dockerizing developed models to be moved into production.
- Developing a churn project for house policies.
- Excessively using libraries of Lightgbm & Xgboost.

Sep 2018
Oct 2019

Fraud Systems Engineer　　　**Turkcell**

- Leading a ML project that aims to predict which customers are going to object to their invoices. Trying to lower the returns that customers get from Turkcell. Dealing with an unbalanced problem.
- Monitoring Fraud and Credit Control services of Turkcell. Deploying software packages on live environment.

Apr 2018
Aug 2019

Junior Data Scientist　　　**Organon Analytics**

- Designing dashboards for end users in Shiny library of R.
- Automating workflows through Python scripts.

Nov 2017
Mar 2018

Freelance Coder　　　**AG Bioinformatics**

- Designing and coding experiments used for EEG Analysis.
- Actively using Python and Neurobs's Presentation Software.

Achievements

Kaggle

Kaggle Expert

- Collecting 3 silver and 2 bronze medals in competitions. Joining more than 20 competitions.

2017 ALES
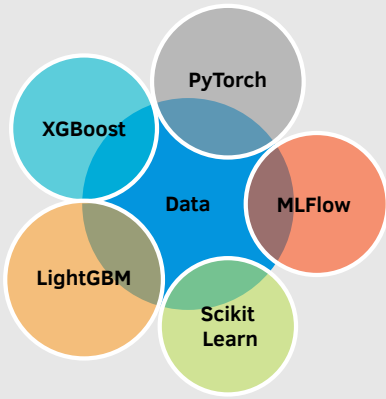
Coming 147th in Turkey

- Coming in 147th in 2017 Spring ALES(Academic Personnel and Postgraduate Education Entrance Exam) among 300 thousand people.

2012 YGS

Coming 300th in Turkey

- Coming in 300th in 2012 YGS(The Transition to Higher Education Examination) among 1 million 860 thousand people.

ML Libraries

PyTorch
XGBoost
Data
MLFlow
LightGBM
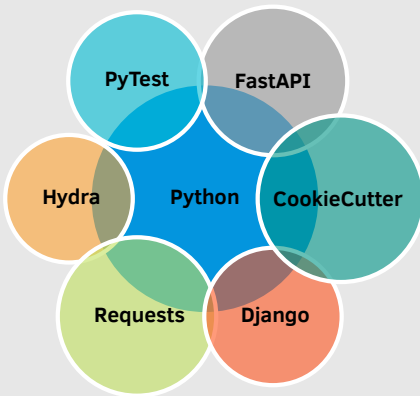Scikit Learn

Programming Skills

- Python

- Linux • Git

- Microsoft Office • Docker • SQL

- AWS • Airflow • Big Data

Python Libraries

PyTest
FastAPI
Hydra
Python
CookieCutter
Requests
Django

Languages

Turkish (C2 - Native Language)

English (C1 - Professional Work Ability)

Arabic (A2 - Elementary Level)

Projects

Django App	**muhammedbuyukkinaci.com**	GitHub Link

- A dynamic Django Application deployed on a VPS of DigitalOcean.
- Using Bootstrap, JavaScript, PostgreSQL, NGINX, Gunicorn and Docker to build up the website.

Time Series	**Bitcoin Trading**	GitHub Link

- Building up an LSTM model to predict price volatility on 4-hourly Bitcoin data.
- Obtaining an important fractional signal for trading.

Image Segmentation	**DeText**	GitHub Link

- Creating an imitated dataset via printing texts on images.
- Tranining a UNet model to remove texts on images via TensorFlow.

Image Classification	**Multiclass Image Classification With TensorFlow**	GitHub Link

- Training a CNN (AlexNet) on multiple classes from scratch.

Certificates

AWS	**Introduction to AWS**	Certificate Link

- Completing a 25-hours AWS Course on Udemy. Putting my notes on a Github repository.
- Learning fundamentals of AWS. Having a detailed knowledge on EC2, S3, VPC, RDS and DynamoDB.

MLOps	**Complete MLOPS Bootcamp**	Certificate Link

- Completing a 3.5 hours MLOps course and listing my learnings on Github.
- Learning useful tools for MLOps practices to improve Machine Learning Development Lifecycle.

Docker	**Docker A-Z™**	Certificate Link

- Completing a 16-hours Docker Course on Udemy and putting my takeaways upto a GitHub Repository.
- Having a detailed knowledge on Docker.

Linux	**Linux A-Z™**	Certificate Link

- Completing a 10-hours Linux Course on Udemy and listing my notes on a GitHub Repository.
- Enhancing my Linux knowledge.

Big Data	**Big Data A-Z™**	Certificate Link

- Completing a 12-hours Big Data Course on Udemy and listing my learnings on Github.
- Having basics of Apache Kafka, Hadoop, Spark and other NoSQL technologies.

Airflow	**Introduction to Apache Airflow**	Certificate Link

- Completing a 2.5 hours Airflow course and listing my learnings on Github.
- Comprehending basics of Airflow.