



Batuhan Kavlak

Full Stack Data Scientist

A Researcher and a Data Scientist with 3+ experience in the industry. I took part in all steps of data science projects: project proposal, fund raising, data collection, model development, large-dataset processing, deployment to web platforms, and user experience with models.

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WORK EXPERIENCE

Data Science Engineer UP42

01/2022 - Present

Berlin, Germany

UP42 is a marketplace for satellite imagery and algorithms that you can run with the imagery.

Achievements/Tasks

- Joined the processing team to improve the platform's catalog on machine learning algorithms and their quality.
- Responsible for maintaining the existing algorithm (improving and adapting them to new images) and building state of art machine learning algorithms.
- Involving in strategy discussions for the future of processing blocks in the platform, analyzing the current situation in geospatial industry.

Lead Data Scientist Doktar Agricultural Solutions

02/2019 - Present

Istanbul, Turkey

Doktar is the agricultural technology leader in Turkey, transforming agricultural decisions for all stakeholders.

Achievements/Tasks

- Coordinated mainly a team of 11 people from different backgrounds and other teams in the company (Software, Agriculture, and Machine Learning Engineers) to build models works on production.
- Prepared and presented a proposal to the Turkish Science Institution to create a holistic system to track the agricultural situation over Turkey within the year. The project was funded with a \$100k grant.
- Involved in consultancy projects that focus on Turkish agricultural system and its stakeholders. Traveled around more than 20 cities to analyze and report the current situation.

EDUCATION

Business Administration & Management Boğaziçi University

09/2013 - 01/2019

Istanbul, Turkey - GPA: 3.5

Courses

- Data Science for Businesses
- Management Science
- Research Methods
- Operations Management

Erasmus - Business Administration Universiteit Twente

02/2017 - 07/2017

Enschede, the Netherlands

SKILLS

R

Linux

Python

PostgreSQL

POSTGIS

AWS

Microsoft Office

PERSONAL PROJECTS

Understanding Map Uncertainty with Bootstrap (03/2021 - Present)

- We are going to publish a paper about adjusting map area estimates with bootstrap uncertainty estimation. All R codes to calculate statistics will be published openly.
github.com/bkavlak/bootstrap

Geemap Python Package Docker Maintenance (08/2020 - Present)

- github.com/bkavlak/geemap_docker

PROFESSIONAL PROJECTS

National Agricultural Information System (06/2020 - 11/2021)

Early Results: doktor.com/optimizasyon (> 95% for crop classification, > 85% for boundary delineation, processing > 10TB data)

Doktar Pest Trap Model (08/2020 - 08/2021)

On active deployment, model updates itself as data labels coming.
Product Page: doktor.com/en/pheromone-trap

Soil Analysis Device Fertilizer Advice (01/2020 - 04/2020)

Farmers can now get their fertilizer advice in 5 minutes with the product and the model. Product Page: doktor.com/en/digital-soil-analysis

Bayer Crop Science Loyalty Program (04/2020 - 08/2020)

Researched 1,000 people both with quantitative and qualitative surveys. Interviewed company managers to create synergy among different teams.

LANGUAGES

Turkish

Native or Bilingual Proficiency

English

Full Professional Proficiency

INTERESTS

Cognitive Science

Electronic Music Production

Computer Vision

Statistics

Programming Languages

Social Businesses