



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

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

- Coordinating a GIS team of 11 people from different backgrounds. We are mainly building geospatial solutions in different regions of the world.
- Coordinated different teams (Software, Agriculture, and Machine Learning Engineers) to build a Doktar Pest Trap product model to count and detect pests on photos with different resolutions. This is a project where we follow an active learning paradigm.
- 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. We follow an ensemble learning paradigm to estimate plantation area for different crops, detect agricultural boundaries, and predict yield.
- Producing weekly reports to agricultural companies such as Bayer, Dekalb, Seminis, Semolina, and Tat about plantation area, harvest pace, disease situation in large agricultural deltas.
- Involved in consultancy projects to key accounts and prepared market intelligence reports, as business analyst in my first 6 months.

Business Analyst

Nielsen Company

06/2018 - 12/2018

Istanbul, Turkey

Nielsen is a global market research company, creating solutions for mostly FMCG companies.

Achievements/Tasks

- The Retail Measurement Systems department, which gives support & consultancy for FMCG companies about their status in retailers. My main mission was to query for the data and to prepare ad-hoc analyses.

EDUCATION

Business Administration & Management

Boğaziçi University

09/2013 - 01/2019

Istanbul, Turkey - GPA: 3.5

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/bootmap

Open GIS Lectures (08/2020 - Present)

- github.com/bkavlak/datacamp2020-doktar

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: doktar.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: doktar.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: doktar.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