BATUHAN SAYLAM

DATA SCIENTIST | ANALYST | STATISTICIAN

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I am curious about artificial intelligence and data science. I am hardworking, I have experience and training in time series analysis and. I am developing myself in Natural Language Processing and have done projects in computer vision. I am interested in computer vision, especially deep metric learning and language-vision pre-training models.

EXPERIENCE

Digital Transformation Office of the Presidency of the Republic of Turkey | Ankara   **01/2025 - Present**

Department of Big Data and Artificial Intelligence Applications

Analyst

Worked on the remote sensing project of Ministry of Agriculture and Forestry. In this project, OpenCv, SentinelHub, skimage, skfda and sklearn are used. Also, Prepared an interface for Digital Youth Ecosystem of Artificial Intelligence.

Güriş Technology - Güriş Holding | Ankara   **10/2024 - 12/2024**

Artificial Intelligence Team

Candidate Engineer in Data Science

- **Project 1: Damage Detection with Autoencoders**

   Focused on detecting damaged components before failures.

- **Project 2: Wind Turbine Icing Prediction**

   Aimed to predict wind turbine icing before six hours. Applied semi-supervised methods, XGBoost, and hybrid models combining CNN and LSTM. Addressed data imbalance using techniques like NearMiss v2, Repeated Edited Nearest Neighbours, and non-uniform negative sampling. Utilized loss functions such as Triplet Margin Loss and weighted Binary Cross-Entropy for neural network structures. Created a database table using DBeaver and recorded predictions using psycopg2 in Python. Used Docker, Pytorch, Grafana, Sci-kit learn, VSCode, Dbeaver with PostgreSQL and Jupyter Notebook.

Digital Transformation Office of the Presidency of the Republic of Turkey | Ankara   **07/2024 - 09/2024**

Department of Big Data and Artificial Intelligence Applications

Data Science / Machine Learning Intern

Prepared data pre-processing applications for machine learning trainings given by the presidency of the republic of Türkiye Digital Transformation Office and tested them with supervised machine learning algorithms. Attended classes as an assistant and made presentations about the data preprocessing and machine learning applications I prepared for the classes. In the model that I trained with mnist data for image classification using Resnet18 architecture, I determined fashionMnist as OOD and performed OOD detection with methods such as ODIN and MSP. I did an image classification project using supervised contrastive learning. Implemented the OOD aware SupCon article with SupCon, a type of metric learning. Used PyCharm, Pytorch, Sci-Kit learn, VSCode, and Google Colab.

JOTFORM Inc. | Ankara   **07/2023 - 09/2023**

Data Analyst Intern

Used Python, NeuralProphet, Prophet and statsmodels, Pandasql, Plotly. Time series analysis and forecasting. Prepared dashboard with Python Plotly Dash to display plots prepared by Python.

Republic of Türkiye Ministry of Treasury and Finance | Ankara   06/2023 - 07/2023

Data Analyst Intern

Internship in database, data analytics, and decision support units.Used Linux commands, vi editor, and nano editor for database management systems in the Linux operating system. Restored data to pgAdmin and Dbeaver, and used SQL to query. Prepared dashboard with Python Plotly Dash to display plots prepared by Python. Prepared dashboard for KPI with Microsoft Power BI and presented the dashboard. Received basic information about SAP BusinessObjects by the Decision Support team.Used Pandas, PostgreSQL, Dbeaver, Microsoft Power BI, Plotly Dash.

Mobilizer Software and Technology A.Ş. | Ankara   06/2022 - 09/2022

Data Analyst Intern

Analysed and named data on big data. Used Pandas, SQL, Google Cloud, Python, Seaborn, Matplotlib, Numpy, Google Sheets.

EDUCATION

Middle East Technical University | Ankara   **2019 - 2024**

Bachelor Of Science in Statistics
cGPA: 3.01

Middle East Technical University | Ankara   **2020 - 2023**

Double Major in Chemical Engineering – *Dropped Out*
cGPA: 2.74

Eskişehir Anatolian High School | Eskişehir   **2014 - 2018**

EXAMS

ALES: **11/2023**

SAY (Quantitative): Score: 88,48085, Rank: 1.486; SÖZ (Verbal): Score:74,9040, Rank:17.043; EA (Equally Weighted): Score: 81,78397, Rank: 3.303

YDS (English):   **03/2023**

Score: 71,25, Level: C

PROJECTS

Intuition To Math: Deep Learning In Special Education   **September 2024**

DOI: 10.13140/RG.2.2.29740.07043

In this study, the aim of using standard & massive data through deep learning that can be seen as math underlying the intuition, instead of using non-standardized & limited data through intuition in potential forecasting made in line with the basic philosophy of special education from Vygotsky's perspective, which is to reach the student's measured performance to its forecasted potential, was tried to be achieved.

PREDICTION OF TRANSMISSION TYPE OF A CAR   **June 2024**

STAT 412: Statistical Data Analysis – Term Project

The study analyses cars and classifies data to predict transmission type. Methods/Tools: logistic regression, support vector machine, naive bayes, decision tree, XGBoost, and Neural Network, R Studio, R.

TIME SERIES ANALYSIS AND FORECASTING OF LOSSES OF RUSSIAN TANKS IN 2022 RUSSIAN - UKRAINE WAR   **January 2024**

STAT 497: Applied Time Series Analysis - Term Project

Time series analysis of the daily losses of Russian tanks in Russian - Ukrainian War which is started 2022. Methods/Tools: ARIMA, ETS, TBATS, NNETAR, Prophet, R Studio, R.

THE IMPACT OF ECONOMIC LEVELS AND REGIONS ON THINNES, AND DISEASES ON LIFE EXPECTANCY January 2024

STAT 467: Multivariate Analysis - Term Project

Examined how the economic situations of the countries in the dataset and the regions they are located in affect Thinnes in two different age groups or whether there is a relationship. Used statistical methods and applied multivariate analysis. Used R Studio, R.

SKILLS

English: B1+

Python, Plotly Dash, Pytorch, Scikit-Learn, Scikit-Image, Scikit-FDA, seaborn, matplotlib, Yellowbrick, pmdarima, Prophet, NeuralProphet, statsmodels, imblearn, NLTK, spaCy, Google Cloud/Colab, Tensorflow, Keras, XGBoost, LightGBM, CatBoost, Hugging Face, Dbeaver, SQL, PostgreSQL, pgAdmin, Git, Github, GitLab, Java (OOP), HTML, CSS, Flask, C/C++, Grafana, Agile/Scrum, OpenCV, R/R shiny

EXPERTISE

Time Series Analysis/ Forecasting, DBMS, Data Visualization, OOP, Machine Learning, Deep Learning, Algorithm and Data Structures, Natural Language Processing, Computer Vision, Data Analysis.

CERTIFICATIONS

Tree-Based Methods | Datacamp	**2024**
Naive Bayes | Datacamp	**2024**
Support Vector Machines in R | Datacamp	**2024**
Dimensionality Reduction in R | Datacamp	**2024**
Generalized Linear Models in R | Datacamp	**2024**
Feature Engineering in R | Datacamp	**2024**
Exploratory Data Analysis in R | Datacamp	**2023**
ARIMA Models in R | Datacamp	**2023**
ARIMA Models in Manipulating Time Series Data in R | Datacamp	**2023**
Visualizing Time Series Data in R | Datacamp	**2023**
Machine Learning Explainability | Kaggle	**2022**
edX HarvardX PH125.2x Certification | edX	**2022**
edX IBM PY0101EN Certification | edX	**2022**
Intermediate Machine Learning | Kaggle	**2022**