

BERKAY YILMAZ

Data Scientist

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EDUCATION

Bachelor of Science
Computer Science

Dokuz Eylül University

📅 2018 - 2022

SKILLS

- Python (8 years of experience)
- Scikit-learn, PyTorch, Numpy, Pandas, Matplotlib, Seaborn experience
- Statistics and ML techniques
- SQL
- NoSQL
- Apache Spark
- Flask
- Git

PERSONAL DETAILS

- English Proficient, Turkish native
- Hackerrank #1 on SQL problems
- Academic literacy
- Fascinated about the life itself, which attracted me to data it is made of.
- My personal interests are drawing portraits, anatomy and landscapes both digital, traditional. Creative Coding art. Learning French and Russian for 3 years. Geology & Analytic Philosophy

- WORK EXPERIENCE -

Data Scientist & Python Developer

MENTALIST (founded)

📅 June 2021 - current

- Mentalist is an ML-driven mobile application to help people learn and memorize words in the songs and movies,
- Applied text extraction, data cleansing, descriptive statistics, English lemmatization, experimented with word-sense disambiguation with supervised and unsupervised approaches, classified media genres with 86% accuracy,
- Theorized and implemented an impactful user vocabulary prediction system, created a GloVe model for word similarity and brand new k-Nearest-Words vocabulary prediction method. Collaborated with Ph.D. academicians on the algorithmic approaches,
- Documented and presented the project to Turkey's prestigious science organization TUBITAK. The project has currently applied to the third and last phase. Any questions are welcomed.
- Designed, developed and deployed a high performant multithreaded Flask service and database which includes user data, relational media data. used SQLite (SQL), and Firebase Admin SDK (NoSQL) database systems. Worked with Genius Lyrics, Youtube, Google Cloud, Google Translate, OpenSubtitles API's.

Data Scientist

Freelance

📅 January 2020 - October 2021

- Performed exploratory data analysis and data wrangling, delivered hyperparameter tuned BERT models, - Always met deadlines.
- Designed and implemented recommender systems for customer needs,
- Applied and tested combinatorial and metaheuristic optimization algorithms, improved Betafresh food delivery routing by 8%,
- Improved model success from imbalanced data with feature engineering.

CS Student

Dokuz Eylül University - Computer Science

📅 2018 - 2022

📍 İzmir, Turkey

- Took data science courses, Data and Web Mining, Artificial Intelligence, Statistics, Signal Processing and Machine Learning, applied descriptive statistics, False Discovery Rates, PCA, and machine learning approaches. Internalized evaluation metrics like ROC, ROUGE, Gini index etc.
- Implemented optimization algorithms from scratch (Simulated Annealing, Gradient Descent, Genetic Algorithm), applied on different NP and NP-hard problems like TSP, Implemented adjustable Artificial Neural Networks from scratch both on C++ and Python,
- Programmed a Telegram Bot to operate a printer and open source personal bot named BERKAY's Lyrics Bot, still on Twitter,
- Undergraduate thesis and presentation on "Vocabulary Prediction using Language Models" which we used on Mentalist's core.