BERK KARAHAN

DATA ENTHUSIAST
BSC-INDUSTRIAL ENGINEER
MSC-ENGINEERING BUSINESS MANAGEMENT

📂 PROJECTS

Pythonic Web-Scraper
Homebrew
- [Link](#) to project.
- Multi-threaded.
- Web-scraper with pythonic barebones as much as possible(only Beatifulsoup as 3rd party).

Predicting car prices
Homebrew
- Data pipeline -> scrape data / data preprocessing / feature modelling / training / prediction.
- Gained hands on experience with;
  - Dimensionality reduction(PCA)
  - Outlier removal(naive and quantile analysis)
  - Dealing with categorical variables.
- Python libs include but not limited to: numpy / pandas / sckit-learn / categorical_encoders / xgboost / tensorflow via keras.

Spare Parts Inventory Management
Otokar
- Project Flow;
  - Export part historic transactions data from SAP.
  - Decompose historic data to trend, seasonality and error components.
  - Apply various methods for different part groups from forecast package in R by Rob Hyndman.
- R is mainly used as means for forecasting and finding optimal inventory policies using optimisation.

🎓 EDUCATION

2015 | 2014
MSc Engineering Business Management
University of Warwick 📍 United Kingdom
- Wrote a dissertation on optimisation of process parameters for early systems design using discrete event simulation.
  - Used utility functions to reduce multi-objective optimisation to single maximisation objective function.

2014 | 2010
BSc Industrial Engineering
Bilkent University 📍 Turkey
Probability, statistics, stochastic models, mathematical models and optimisation, improved decision making, multi objective optimisation.

💼 EXPERIENCES

Dec 2016
Materials Planner
FNSS 📍 Ankara / TURKEY
- Demand management.
- Configuration management using special bill of material system.
- Supply Chain Control through make-buy and source change request processes.

Dec 2016 | Feb 2016
Production Planning and Control Engineer
Otokar 📍 Sakarya / TURKEY
- Shop floor planning and control of processes for military vehicles.
- Preparing, maintaining and controlling master production schedule and detailed production schedules over SAP.

CONTACT INFO

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SKILLS

Python - Intermediate
R - Beginner / Intermediate
MATLAB - Intermediate
Java - Beginner / Intermediate

HANDS ON EXPERIENCE WITH;

Python;
Data manipulation(pandas & numpy)
Machine learning(scikit-learn, xgboost, dask)

R;
Data manipulation, statistical analysis, forecasting and evaluating forecasting policies.

WORKING KNOWLEDGE OF;

Decision Trees
SVM
kNN
Deep Neural Networks(Neurons, layers, activations, loss, backpropogation)