BERK KARAHAN

DATA ENTHUSIAST
BSC-INDUSTRIAL ENGINEER
MSC-ENGINEERING BUSINESS MANAGEMENT

PROJECTS

Portfolio
Homebrew

- For a general overview of my projects / challenges please visit https://bit.ly/bk_projects(or simply my github).

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

TBD | 2018

MSc Software Engineering
METU - Middle East Technical University — Turkey

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

github.com/berkkarahan
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provided upon request

SKILLS

Python - Intermediate
R - Beginner / Intermediate
MATLAB - Intermediate
Java - Beginner / Intermediate
node.js - Beginner

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;

- Trees(Decision Trees & Random Forests)
- SVM
- kNN
- Deep Neural Networks(Neurons, layers, activations, loss, backpropogation)