

RECEP YUSUF BEKCI, PHD CANDIDATE

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PROFILE SUMMARY

Enthusiastic data science practitioner with strong machine learning and statistics background.

Researcher with interests in retail, airline industry, and risk management.

Expertise in Operations Research, modelling and optimization.

SKILLS

Machine Learning	Pandas, Numpy, Scikit-learn, Keras, Tensorflow, PyTorch
Computer Programming	Python, R, SQL, Java, MATLAB
Software & Tools	Arena Simulation, Gurobi Optimization, CPLEX Optimization Studio, FICO Xpress Optimization Suite, MS Excel, L ^A T _E X

EDUCATION

McGill University, Montreal, Canada *August 2018 - Present*

PhD in Management
Specialization in Machine Learning. Minor in Statistics.

Bilkent University, Ankara, Turkey *September 2013 - June 2018*
B.S., Industrial Engineering *CGPA: 3.73/4*

Ankara Science High School, Ankara, Turkey *2009 - 2013*
CGPA: 91/100

PROJECTS

Kindly visit <http://rybekci.github.io/projects.html>. Descriptions are in English.

Image-based Forecasting for Fast-Fashion

We utilized computer vision techniques, more specifically, convolutional neural networks for retrieving the information from images and deep learning and other machine learning methods for predictions. We used data from one of the largest Fast-Fashion retail companies in Eastern Europe. We will implement a dynamic stock allocation model utilizing this predictions.

Optimization of Customer Retention Rate in Life Insurances Renewal and Exit Processes

Production Systems Design Project by AVIVA-SA Inc.

Working as part of a team for predicting churn probability of customers using data science techniques and making suggestions to increase retention of life insurance customers via mathematical programming.

Risk-Averse Airline Revenue Management with Coherent Measures of Risk

This problem has been modelled using Markov Decision Processes. The aim of the project is to show whether a control limit policy exists for single-leg risk-averse model with overbooking, cancellation and no-shows under coherent measures of risk.

Simulation of a Steel Company

IE 324 Simulation Course Project

Modelling and simulation of a steel company using Arena. The project is a former IISE/Arena Student Competition question.

TEACHING EXPERIENCE

MGSC 695 Deep Learning

2019 Summer, 2020 Winter

Teaching Assistant

- Conducting office hours, grading assignments, midterm and final. Tutorials on Keras.

MGCR 472 Operations Management

2019 Winter, 2020 Winter

Teaching Assistant

- Conducting office hours, grading assignments.

WORK EXPERIENCE

Turkish Aerospace Industries, Inc. (TAI), Ankara, Turkey

February 2018-April 2018

Candidate Engineer

Production Planning and Control Department. Monitoring of production of aircraft parts and control of production plan.

ASELSAN Electronics, Ankara, Turkey

June 2017-July 2017

Internship

My project: Analyzing and optimizing IT service desk setting using data analysis and simulation, I used Python and Arena.

AWARDS AND HONORS

High Honor Graduate degree of Bilkent University 2018

Certificates of High Honor Fall 2014 – Spring 2018

Scholarship of Turkish Prime Ministry 2014 – 2018

Ranked 68rd in Nationwide University Entrance Exam in Turkey (YGS) among 2 million students 2014

EXTRA-CIRRICULAR

Member of Voluntary Teaching Projects in Bilkent University. We helped students living in poor neighborhoods with their school lessons, homeworks and explaining the subjects that they have struggled.