

# HAYDAR EVREN

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## WORK EXPERIENCE

### Boston College

Chestnut Hill, MA

*Ph.D. Candidate, Department of Economics*

Sep. 2018 – Present

- Created an algorithmic solution for multi-period apportionment problem affecting 12k jobs using graph theory and statistics
- Presented at 9 national and departmental seminars to audiences ranging from 10 to 30+ people
- Supported 2 faculty, leading academics in market design, with proofreading and writing referee reports

*Instructor & Teaching Assistant, Department of Economics*

Sep. 2016 – Present

- Taught 6 courses to 30-70 undergraduate and graduate students per semester; received a teaching excellence award
- Courses included: Machine Learning for Economics, Forecasting Techniques (Graduate Level), Microeconomics Theory
- Supervised a team of 3 doctorate students that led discussion sections for 200+ sophomores in Econometrics Labs
- Assisted 4-6 graduate students per semester across M.S. in Applied Economics Program as a graduate tutor
- Served as a TA for Econometrics (Ph.D. Level), Statistics (Ph.D. Level), Game Theory, and International Trade courses

### Harvard University

Cambridge, MA

*Teaching Fellow*

Jun. 2020 – Present

- Guided review sessions for groups of 20-60 professionals pursuing graduate degrees and led occasional lectures
- Supervised group case studies, graded problem sets and exams, and held flexible on-call office hours (rating of 4.75/5)

### The Data Incubator

New York, NY (Remote)

*Data Science Fellow, Data Science Boot Camp*

Sep. 2021 – Nov. 2021

- Received a fellowship from a highly selective (2% of Ph.D.s accepted) and rigorous, 8-week program
- Built an NLP based recommender system using Scikit-Learn, Tensorflow, and Flask in a fully deployed web app
- Built a stock analysis web app that retrieves data from Alpha Vantage and presents the analysis using Bokeh and Flask
- Developed CNN-based image classifiers leveraging transfer learning with a 5 GB+ dataset using TensorFlow

### dData

Cambridge, MA (Remote)

*Data Science Intern, Fintech Startup*

Jun. 2021 – Aug. 2021

- Led a machine learning project that predicts macroeconomic indicators using 1k+ of variables
- Built a multiple imputation technique and deep learning model; boosted the model performance (RMSE) by 30%
- Optimized algorithms; improved speed of the pipeline and reduced AWS costs by 20%
- Pitched the technological capabilities of the product to the Asian Development Bank; received additional investment

### RIG

Bethany, CT (Remote)

*AI/ML Software Engineer Intern*

May 2021 – Aug. 2021

- Worked on back-end development of a progressive web application that enables fast, touchless entry to venues
- Built an API for face verification and OCR data extraction for ID cards; decreased unauthorized access
- Enabled documentation of codebase and created a comprehensive business plan; led to an increase in efficiency

### Bogazici University

Istanbul, Turkey

*Graduate Teaching Assistant, Department of Economics*

Sep. 2014 – Aug. 2016

- Conducted weekly problem-solving sessions and held office hours for 5 courses
- Courses included: Mathematical Methods for Economics (Graduate Level), Computing for Economics and Management

### Turkcell

Istanbul, Turkey

*Business Analyst Intern, Telecommunication Service Provider*

Jun. 2013 – Aug. 2013

- Collaborated with a multidisciplinary team at leading mobile phone operator of Turkey
- Built business strategies for the digital learning platform project and acted as technical liaison between departments

### MILTEK

Istanbul, Turkey

*Engineering Intern, Electronics R&D*

Jun. 2012 – Aug. 2012

- Developed signal processing algorithm of life-detection system for rescuing human subjects under rubble using MATLAB

## EDUCATION

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### Boston College

Chestnut Hill, MA

*Ph.D. in Econometrics and Quantitative Economics*

May 2022 (Expected)

- *Awards:* Donald J. White Teaching Excellence Award, H. Michael Mann Research Fund

*M.A. in Economics*

May 2018

- *Coursework:* Applied Econometrics and Big Data, Statistics, Nonlinear Econometrics

### The Data Incubator

New York, NY

*Data Science Certification – Fellowship Program*

Nov. 2021

- *Coursework:* Data Structures, Algorithms, Databases, Machine Learning, Distributed Computing, NLP, Deep Learning

### Bogazici University

Istanbul, Turkey

*B.S. in Electrical Engineering & Mathematics (Double Major)*

May 2014

- *Coursework:* Probability, Optimization, Linear Algebra, Numerical Methods, Multivariate Calculus
- *Awards:* Dean's Honor List, Academic Excellence Scholarship

## TECHNICAL SKILLS

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**Languages :** Python, R, SQL (MySQL, PostgreSQL), MATLAB, Stata, HTML/CSS, LaTeX

**Framework/Tools :** Scikit-Learn, TensorFlow, PySpark, PySpark ML, Pytorch, H2O, AWS, Docker, Unix, Git

**Machine Learning :** Regression, Classification, Bayesian Inference, Ensemble Methods (XGBoost, Random Forest), NLP (Word2vec, BERT), Deep Learning, Feature Engineering, Deep Reinforcement Learning, Time-Series Analysis

## OTHER AWARDS AND ACTIVITIES

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- Competed in various college snowboard championships, 2009-2014
- 2nd place in National Math Olympiads & Member of Turkish Team at International Mathematical Olympiads, 2008