Suat Akbulut, Ph.D.

915 Southgate Dr. Apt 18, State College, PA 16801

@ akbulut.suat@gmail.com

3 814-753-0918

suatakbulut.com

in suatakbulut

suatakbulut

EXPERIENCE

Associate Quantitative Analyst

Goldman Sachs

Aug 2022 - Apr 2023

New York, NY

As part of the Prime Portfolio Strats team in the Prime Business department, I calculated margin requirements for large hedge funds using stress-based models. This involved analyzing complex scenarios and making informed decisions to manage risk as well as performing back-testing. I contributed to process improvement initiatives and collaborated with cross-functional teams. I produced client reports with visualizations for risk monitoring, and communicated complex margin methods to non-technical stakeholders.

Data Scientist

Billups

i June 2021 - July 2022

State College, PA (Remote)

Developed Databricks-based workflow to reduce computation time and errors for geospatial data processing, created A/B testing frameworks for evaluating model quality, designed a blockchain-based, privacy-centric app to collect geospatial data for out-of-home advertising, and optimized Spark code for attribution calculation.

Graduate Assistant

Pennsylvania State University

a Aug 2015 - Dec 2020

University Park, PA

Taught Microeconomics and Money & Banking to over 60 college-level students, served as a teaching assistant for Economics & Law and Game Theory courses for over 100 college-level students, where I delegated responsibility to graders, and a grad-level Econometrics course for over 30 students.

SELECTED PROJECTS

Picture Thishttps://picturethis.herokuapp.com

Takes a user-provided photo and creates a story out of it. Employs a YOLO3 object detection model to identify the objects in the photo, then utilizes writesonic (ChatGPT-like) API to create a story.

Used Carshttps://usedcars.herokuapp.com

Asks the user to provide the basics of a car and displays the car's photo, reviews, complaints, and estimated asking price on craigslist.com as well as the price distribution across different states on the U.S. map.

PUBLICATIONS

Books

Akbulut, S. (2021). Essays on value distributions in all-pay auctions. Pennsylvania State University. Retrieved from https://books.google.com/books?id=HiySzgEACAAJ

Journal Articles /& Conferences

- Ryoo, J., Gudukbay Akbulut, G., Jiang, H., Tang, X., Akbulut, S., Sampson, J., Narayanan, V., & Kandemir, M. (2023). Mlam: A machine learning-aided architectural bottleneck analysis model. *Manuscript submitted for publication*.
- Ozdemir, A., Akbulut, S., Alrizah, M., & Choi, K. (2020). High-speed tiq flash adc designing tool with supervised learning. Manuscript submitted for publication.
- Akbulut, S., & Yılmaz, M. (2015). A dynamic model of mixed duopolistic competition: Open source vs. proprietary innovation. *Theoretical Economics Letters*, 5(06), 730.

EDUCATION

Ph.D. in Econometrics and Quantitative Economics

Pennsylvania State University

a Aug 2015 - May 2021

M.A. in Economics Bogazici University

Sept 2013 - June 2015

B.A. in Economics **Bogazici University**

Sept 2007 - June 2012

SKILLS



HONORS & AWARDS

Achievements

- 2014 Murat Sertel Award (For the bestperforming student in their graduate studies)
- 2012 Honor Certificate (Bogazici University)

Mathematic Olympiads

- 2007 2nd Place in National Research Competition in Mathematics
- 2005 Silver Medal in National Mathematics Olympiads
- 2005 Bronze Medal in Akdeniz University Mathematics Olympiads
- 2004 Bronze Medal in Akdeniz University Olympiads

*

Certifications

- Deep Learning Specialization by DeepLearning.ai
 Instructor: Andrew Ng
- Machine Learning by Coursera Instructor: Andrew Ng
- Programming in C++: A Hands-on Introduction by Codio