

EGEMEN SAHIN

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EDUCATION

Dartmouth College, Hanover, NH

September 2019-June 2023

Bachelor of Arts, Double Major in Mathematics and Computer Science

Relevant Coursework: *Algorithms, Discrete Math in Computer Science, Machine Learning & Statistical Data Analysis, Number Theory, Honors Probability** (Citation)

EXPERIENCE

Tiltfactor LAB, Hanover, NH

September 2021-Present

AI Research Assistant

- Developed and implemented VQGAN+CLIP in iOS environments for art exhibitions (Python, Jupyter)
- Collaborated with fellow researchers through dataset research, data preprocessing and experimentation on AI
- Helped secure \$25,000 in funding from the Hopkins Center for the Arts by identifying grant opportunities

Dartmouth College Department of Mathematics, Hanover, NH

September 2020-Present

Grader

- Graded students' homework in MATH20 Probability, MATH22 Linear Algebra, and MATH23 Differential Equations
- Introduced weekly feedback notes by analyzing students' homework performance in Probability and Linear Algebra
- Tutored 5 students in Mathematics and Computer Science courses, increasing their average note from B to A-

Dartmouth-AUK Program Office, Hanover, NH

August 2021-December 2021

Research Intern

- Wrote a 160-page comprehensive external review of the American University of Kuwait by analyzing previous reports and implementing COVID's effect on teaching
- Initiated weekly meetings and provided detailed feedback to ensure correctness

Tuck School of Business, Hanover, NH

December 2020-July 2021

Research Assistant

- Collected and analyzed 200+ A/B tests on the topic of "algorithm aversion" through extensive literature review
- Organized A/B test data for data analysis and extrapolation

LEADERSHIP

Stratz.co, Izmir, Turkey

February 2021-Present

Co-Founder, Full Stack Developer

- Developed a website for video game players to improve their game abilities, connect with communities and share strategies (NextJS, React)

Dartmouth Student Producers Collective, Hanover, NH

February 2021-Present

Founder, President

- Founded the club for student music producers at Dartmouth through self-led campaigns
- Initiated termly social events for members to showcase their productions to the Dartmouth student body

PUBLICATIONS

[Carbon Nanotube Coordinate Prediction with Deep Learning](#)

[Book Genre Classification Based on Titles with Comparative Machine Learning Algorithms](#)

[Abalone Life Phase Classification with Deep Learning](#)

PROJECTS & AWARDS

[Finding trends in recently played artists on Spotify using the Association Rule](#)

- Created a pipeline that gets user data from Spotify's API and analyses relations between user's recently played artists, and visualized the insights (Pandas, Python, Tableau)

[IJCNN 2019 Challenge Up 2nd place](#)

- Developed a body movement classification algorithm using ANNs by efficiently pre-processing limited sensor data

SKILLS & INTERESTS

Computer: SQL, Python, Pandas, React, JavaScript. Artificial Intelligence

Languages: Turkish (Native), English (Fluent), Italian (Intermediate)

Additional Interests: Active Member of Sigma Alpha Epsilon Fraternity, Music Production, Fashion