

Aybuke Derya Ekiz

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Education & Achievements

B.A: Computer Science Major, Psychology Minor

2020-2024

McGill University - Montréal, Quebec

- GPA: 3.91 || Alma Mater Entrance Scholarship || Dean's Honour List
- VP Communications of Arts Undergraduate Society First Year Events, Academic & Representative Council || VP Internal of Classical Music Club

Projects

Guess The Composer

- 2021 Winter MAIS 202 (Machine Learning Bootcamp, offered by McGill Artificial Intelligence Society) Final Project
- Implemented a random forest machine learning model using scikit-learn which detects the composer of a newly heard piece. Trained the model on extracted musical features of hundreds of pieces. Achieved 77% accuracy on the validation set, where random guess is 25%.
- Created a guessing game in which the user can play against the machine learning model:
guessthecomposer.herokuapp.com

Random Poem Generator

- Built a web-app which displays a random three-line poem, along with a random pastel background color in each visit. Defined several possible sentence structures for the poem. One structure is randomly selected and the poem is generated by the selection of random words as the appropriate parts of speech.
- Designed and developed the front-end using HTML, CSS and Flask. Deployed via Heroku:
randompoemgenerator.herokuapp.com

Teaching Experience

Section Leader for Code in Place

May 2021

Stanford University - online

- As a part of the teaching team for Code in Place (the online offering of Stanford University's introductory computer science course CS106A) prepared and held weekly discussion and problem solving sections for 5-6 students.

Science Camp Lead Instructor

2018-2019

Ferhatpasa Arts and Science Center - Istanbul, Turkey

- Initiated and led 18 peers, organized two week-long science camps across two summers, taught 80 elementary school kids Scratch, Python, mind games and science.

Skills: Python, Java, C, HTML, CSS, Flask, Bash scripting, Heroku, Figma