Bora Uyumazturk

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Education

Stanford University, *Stanford, CA*
Master of Science in Computer Science (Specialization in Artificial Intelligence) *Sept. 2019 – Mar. 2020*
GPA: 4.09 / 4.00

Stanford University, *Stanford, CA*
Bachelor of Science in Mathematics *Sept. 2015 – Jun. 2019*
GPA: 4.03 / 4.00
Honors: Phi Beta Kappa, Graduated with Distinction

Work Experience

Viaduct, *Menlo Park, CA*
Senior Product Manager (full-time) *Mar. 2020 – Present.*

- Currently lead 15-person team of engineers, designers, and product managers responsible for improving Viaduct's core product and shipping new features.
- Spearheaded development of Viaduct's Failure Mode Engine, the machine learning platform which enables customers to quickly generate VIN-level risk predictions for emerging quality issues so that they can scope targeted corrective actions instead of running costly, population-wide campaigns.
- Formulated and delivered product demos, both for current users and prospective customers.
- Started company front-end component library and set up storybook for visual inspection and jest for unit testing. Established and documented approach for creating custom charts using React and d3.
- As a machine learning engineer, used Tensorflow and NLP architectures to develop embeddings for high dimensional, discrete sensor data, improving model performance across clients by 20%.

deeplearning.ai, *Palo Alto, CA*
Head Teaching Assistant (full-time for first 3 months, then 20 hours / week) *Jun. 2019 – Apr. 2020*

- Head teaching assistant for AI for Medicine Specialization on Coursera.
- Developed assignments and lessons which have reached more than 30,000 students.
- Covered topics such as CNNs, U-Net, survival analysis, Cox proportional hazards, random forests, among others.

Stanford Machine Learning Group, *Palo Alto, CA*
Research Assistant (20 hours / week) *Sept. 2018 – Sept. 2019*

- Developed and validated models for tumor classification using convolutional neural networks.
- In addition to research, participated in weekly reading groups covering healthcare, statistics, and AI.

Side Projects and Publications

leading-pharmacy-chain-vax-map.net *March. 2021*

- A playful redesign of the CVS coronavirus vaccine website website. Built using next.js, mapbox, tailwind, and github-actions (github.com/bora-uyumazturk/vaccine-availability-ui).

A Deep Learning Assistant for Cancer Subtype Classification (published in *npj Digital Medicine*) *Sept. 2018 – Apr. 2019*

- Developed and validated a deep learning powered diagnostic assistant to help pathologists differentiate between subtypes of liver cancer. Created python library for sampling from annotations of whole slide pathology images. Present extended abstract at ML4H conference at NIPS 2019.

flipsite *July. 2021*

- A business-card inspired personal website layout (using myself as an example). Uses react-spring to implement gesture-based navigation (github.com/bora-uyumazturk/flipsite).

Functional Analysis of Wearable Data *Feb. 2020*

- Compared different methods (such as the discrete fourier transform, kmeans clustering, PCA, and NMF) for extracting functional information from continuous wearable accelerometer data. Implemented parallelized ETL pipeline for processing 20 GB of accelerometer data at second-by-second resolution (github.com/bora-uyumazturk/functional_wearable_analysis).

Organizations

Stanford Chaparral, *Palo Alto, CA*
Art Director *Sept. 2016 – Jun. 2018*

- Served as art director for Stanford's oldest humour magazine.
- Published various cartoons and written pieces and provided constructive criticism on pieces submitted by others.

Skills & Other

Programming Languages and Frameworks: Javascript, Python, Elixir, SQL, GraphQL, React, d3, PySpark, Tensorflow
Human Languages: Turkish, Spanish
Interests: Oil painting, Backgammon, Turkish Coffee