Georgia Channing

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EMPLOYMENT HISTORY

Jun 2020 — Present

Data Science Consultant, Center for Advanced Defense Studies

Washington, D.C.

- Parsing documents in foreign languages with natural language processing
- Automating data processing for subsequent analysis in AWS
- Designing models to uncover information from text data for national security purposes

Jan 2020 — Apr 2020

Data Science Consultant, Learning Ally

Princeton, NJ

- Primary data scientist on project in conjunction with UCSF in early childhood reading
- Trained model to evaluate California school districts' early learning support through natural language processing (over 5,000+ documents)
- Formatted data-driven conclusions to be accessible and convincing to other divisions

PROJECTS

Jan 2019 — Jun 2019

Bachelor's Thesis

ETH Zürich

- Used respiratory rates to predict cardiac arrhythmia in hospital patients. Programmed with SQL, Python, and sci-kit learn to implement a Random Forest Classification model with the MIMIC-III database. The model achieved, at its best, an accuracy of 0.98 and F1-score of 0.97 in the prediction of cardiac arrhythmia.
- Received a score of 5.75 out of 6, the best score one can receive without a letter of exemption from the Thesis Office.

See code repository here and thesis here.

Jun 2020 — Jun 2020

Computer Vision

- Built a neural network with a pre-trained component (NasNet), a PCA component, and a triplet loss function to predict human ratings, descriptions, and comparisons of foods based on images of those foods.
- Clustered images by similarity in taste (as judged by humans) with k-means clustering.

See repository here.

May 2020 — May 2020

Medical Diagnosis and Prediction

- Cleaned, processed, and upsampled time-series and imputed data from 20,000+ patients
- Implemented an Ada Boost Regressor to predict in [0,1] the probability of a patient requiring specified lab tests
- Implemented a Gradient Boosting Regressor to predict Sepsis in hospital patients
- Predicted future average of vital signs over a 12-hour period with a Support Vector Regressor (SVR)

See repository here.

Apr 2020 — Apr 2020

Protein Activation Classification

- Built a neural net with Adam optimizer to classify mutations of a human antibody protein into active and inactive by amino acid differences

See repository here.

EDUCATION

Sep 2019 — Aug 2020

BSc, Eidgenössische Technische Hochschule (ETH Zürich)

Zürich, CH

GPA: 5.75/6.00

Sep 2017 — Jun 2018

BSc, University of Southern California

Los Angeles, CA

GPA: 3.7/4.0

SKILLS

C++	PyTorch
Git	Scala
PostgreSQL	Sci-Kit Learn
Python	TensorFlow

LANGUAGES

Mandarin	C1	Spanish	B2

German C1 Russian B1

INTERESTS AND EXTRACURRICULARS

Jul 2020 — Jul 2020 **Association for the Advancement of Artificial Intelligence**

Jul 2020 — Jul 2020 **USC Varsity Sailing**

Jul 2020 — Jul 2020 **USC Women in Computing**

Jul 2020 — Jul 2020 **Big Data LA**

REFERENCES

Jeff Ho from Learning Ally

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