

Georgia Channing

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LINKS

[GitHub](#), [LinkedIn](#)

EMPLOYMENT HISTORY

Jun 2020 — Present	Data Analyst, Center for Advanced Defense Studies Washington, D.C. <ul style="list-style-type: none">Managing the ETL pipeline: collecting sensitive and publicly available data, parsing and formatting data for further processing and visualization, and pipe-lining into the C4ADS proprietary data lake and AWSUsing NLP, computer vision, and auto-encoders for lead generation and target identificationTeaching others to integrate novel data tools into their own analytical pipelinesManaging a team of nine data and foreign language consultants
Jan 2020 — Apr 2020	Data Science Consultant, Learning Ally Princeton, NJ <ul style="list-style-type: none">Primary data scientist on project in conjunction with UCSF in early childhood readingTrained 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

Jun 2020 — Jun 2020	Computer Vision <ul style="list-style-type: none">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 <ul style="list-style-type: none">Cleaned, processed, and upsampled time-series and imputed data from 20,000+ patientsImplemented an Ada Boost Regressor to predict in [0,1] the probability of a patient requiring specified lab testsImplemented a Gradient Boosting Regressor to predict Sepsis in hospital patientsPredicted 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 <ul style="list-style-type: none">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 .
Jan 2019 — Jun 2019	Bachelor's Thesis ETH Zürich <ul style="list-style-type: none">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 .

EDUCATION

Sep 2019 — Aug 2020	BSc, Eidgenössische Technische Hochschule (ETH Zürich) Zürich, CH GPA: 5.5/6.0
Sep 2017 — Jun 2018	BSc, University of Southern California Los Angeles, CA GPA: 3.7/4.0
Sep 2017 — Present	BSc, University of Tennessee, Knoxville Knoxville 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

Jan 2020 — Present	Association for the Advancement of Artificial Intelligence Active member of AAAI excited to attend the 2020 conference in October.	New York City
Jan 2018 — Jun 2018	USC Varsity Sailing Competed in Division 1 across California and in Collegiate Sailing Nationals as crew.	Los Angeles
Jan 2018 — Aug 2018	USC Women in Computing Marketing Director tasked with website design and maintenance.	Los Angeles
Jan 2018 — Jul 2018	Big Data LA Organized donors for Big Data LA 2018 conference.	Los Angeles

REFERENCES

Jeff Ho from Learning Ally
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Patrick Baine from C4ADS
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