Julian M. Lehrer

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EDUCATION

University of California, Santa Cruz *Fall 2018 - Spring 2022 (expected)*
B.A. Computer Science, Minor in Computational Mathematics

EXPERIENCE

Undergraduate Researcher | *UCSC Genomics Institute — Santa Cruz, CA*

- Used statistical modeling to research the effects of isolation on depression and anxiety
- Wrote interpretable models in Python (scikit-learn) to be used in future clinical analysis
- Generated a research report and presentation for the company

Data Science Intern | *Blackthorn Therapeutics — San Francisco, CA*

- Used statistical modeling to research the effects of isolation on depression and anxiety
- Wrote interpretable models in Python (scikit-learn) to be used in future clinical analysis
- Generated a research report and presentation for the company

Data Science Intern | *Startup Genome — San Francisco, CA*

- Created deep learning model with Python (Pandas, Tensorflow, NLTK) to classify startup sectors from funding data
- Wrote data engineering pipeline to generate and visualize funding metrics for clients

PROJECTS

Project Portfolio | https://github.com/jlehrer1/Projects

Transparency Project (1st Place CruzHacks 2020)

- A fully interactive website that brings clarity to the political process through interactive data visualizations. Build with Plot.ly and Dash, and hosted live on GCloud.

SQLtoPandas

- Python package to use SQL querying on Pandas DataFrames without creating a SQL database
- Built with Python (pandas, numpy, sqlite3) published on PyPi

InstantEDA

- Python package to instantly generate common exploratory data plots without cleaning your DataFrame
- Built with Python (pandas, numpy, plotly), published on PyPi

DrivenData: DengueAI

- Used a combination of engineered lagged features and fourier models to achieve a top 11.8% score globally (so far) on the DrivenData Dengue fever prediction contest
- Built with Pandas, Scikit-learn and Tensorflow

SKILLS

Programming: Python (scikit-learn, Pandas, Numpy, Tensorflow, Plotly), Swift, SQL, Java, C, C++, HTML/CSS (Bootstrap, JQuery), Matlab
Theory: Statistical models, machine learning, deep learning, numerical optimization, numerical methods
Software: AWS Elastic Beanstalk, AWS Lambda, Git, Bash