

Phillip Lagoc

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Education

University of California, San Diego

B.S. Cognitive Science, w/ Specialization in Machine Learning and Neural Computation

Relevant Coursework: Data Science, Modeling and Data Analysis, Machine Learning

La Jolla, CA

Sept. 2016 - Jun. 2020

Skills

Languages: Python, PostgreSQL, C/ C++, Java, R, HTML/ CSS/ JavaScript

Frameworks and Libraries: pandas, scikit-learn, matplotlib, PyTorch, Flask, JUnit, GoogleTest, JsPsych

Software: Tableau, Jupyter Notebook, Git, Visual Studio, Eclipse

Cloud: AWS (EC2, S3)

Work Experience

Machine Learning Research Assistant

La Jolla, CA

Machine Learning for Social Science Lab (MSSL)

Jan. 2019 - Present

- Evaluated the performance of MSSL's temporal tagger against other leading taggers to determine how to improve temporal annotation performance of online documents.
- Visualized the operational costs of different AWS EC2 instance types using matplotlib to optimize model training time and data gathering, which resulted in cutting operational costs by 50%.
- Increased workflow efficiency over four months by leading bi-weekly meetings and documenting weekly tasks into an easily accessible slide deck.

Data Science Instructional Assistant

La Jolla, CA

UC San Diego Cognitive Science Department

Mar. 2019 - Dec. 2019

- Led weekly discussion sections for 20+ students and received 16 positive evaluations regarding my performance, including the highest rating for overall performance from the professors.
- Enhanced student understanding of machine learning models and data science techniques and concepts including data gathering and preprocessing, graph visualization, and data analysis.

Data Science Projects

Airbnb Price Predictor

Apr. 2020 - May 2020

- Analyzed public Airbnb data to build a model that could predict the price of a listing given features such as the location and listing size.
- Implemented boosting and bagging algorithms and dimensionality reduction techniques to achieve a MAE of 0.25
- Deployed model in Flask using features known to the host prior to listing the property in order to assist them in determining the best price.

LeNet Digit Recognizer

Jan. 2020

- Researched CNNs and implemented the LeNet architecture in PyTorch for Kaggle's Digit Recognizer Competition, ranking in the top 10% for model accuracy.
- Developed the network architecture from scratch and implemented a pooling and dropout layer to prevent overfitting.

Leadership Experience

Cognitive Science Student Association

Sept. 2017 - Jun. 2020

- Coordinated networking events with alumni from notable companies like Google and ServiceNow and well-known Cognitive Science faculty.
- Spearheaded the communication with successful individuals including the IBM AI Practice Lead and the Apple AI Research Director for our 14th annual national conference.