Phillip Lagoc

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Education

University of California, San Diego
B.S. Cognitive Science, w/ Specialization in Machine Learning and Neural Computation — La Jolla, CA
Relevant Coursework: Data Science, Modeling and Data Analysis, Machine Learning — Sept. 2016 - Jun. 2020

Skills

Languages: Python, PostGreSQL, C/ C++, Java, R, HTML/ CSS/ JavaScript
Frameworks and Libraries: JUnit, GoogleTest, pandas, scikit-learn, matplotlib, JsPsych, PyTorch
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.
- Evaluated various regression models, including boosting and bagging algorithms, using cross-validation, and employed dimensionality reduction techniques to optimize model performance.
- Reconfigured the best model to use features known to the host prior to listing the property in order to assist them in determining the best price for their listing, achieving a MAE of 0.25.

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.