Lynn Samson

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Education

University of Massachusetts Amherst   Sep 2018 - May 2020
Master of Science in Computer Science   *Amherst, MA*
- **Coursework:** Neural Networks, Deep Learning for NLP, Software Engineering, Advanced Algorithms

University of Massachusetts Amherst   Sep 2014 - May 2018
Bachelor of Science in Computer Science and Mathematics   *Amherst, MA*
- **Coursework:** Machine Learning, Probability Theory, Statistical Inference, Mathematical Modeling, Numerical Methods, Databases

Experience

Sensor Tower   Aug 2021 – May 2023
Data Scientist   *San Francisco, CA*
- Utilized Ruby and MongoDB to develop demographics models and productionize estimates as part of the Usage Intelligence team.
- Delivered improved estimates to clients via high-impact projects, including accurate bias adjustments from a population growth model and a restructured cross-platform blending algorithm.
- Released several key product enhancements that drove client retention and new sales, such as demographics estimates by country and region.
- Performed custom data analysis of active users estimates and communicated results to clients, sales team during quarterly reviews, as well as in response to ad-hoc client tickets.

Amazon   Jan 2020 – May 2020
Applied Scientist Intern   *Cambridge, MA*
- Developed machine learning baselines in Python and PyTorch for a semi-supervised classification task in a streaming data setting.
- Implemented self-training baseline using feed-forward and LSTM architectures to prove SSL as a viable solution.
- Researched cutting-edge algorithms such as consistency regularization and developed prototypes in an online deep learning setting via Hedge Backpropagation.

WW (formerly Weight Watchers)   May 2019 – Aug 2019
Data Scientist Intern   *New York, NY*
- Created word embedding representations for food-items from food journal data using spaCy and FastText.
- Validated embedding performance using qualitative analysis on downstream tasks such as substitute food extraction, and refined results using in-house food ontology data.
- Integrated SQL and Python code as an end-to-end data pipeline within the internal data science library; work was featured in *HealthRecSys 2019 Workshop*.

Technical Skills

Programming Languages: Python, Ruby, R, SQL, Java, C#, JavaScript
Data and Machine Learning: Scikit-Learn, PyTorch, NumPy, Pandas, Matplotlib, BigQuery, FastText, spaCy, MongoDB
Data Science & Miscellaneous Technologies: Exploratory Data Analysis, Statistics, OOP, APIs, Git, LaTeX

Projects and Publications

German-to-English Machine Translation | *Python, PyTorch*
- Implemented sequence-to-sequence models such as LSTM with attention and transformers using PyTorch.
- Achieved BLEU score of 34.2 (highest in class) using a 6-layer transformer model with 8 attention heads.

Modeling Affect Intensity in Tweets — SemEval 2018 Task | *Python, Scikit-Learn, Keras*
- Experimented with machine learning models (e.g. random forest, neural networks) using Scikit-Learn and Keras.
- Achieved accuracy of 0.68 using a deep neural network trained on GloVe embedding features.