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 Natural Language Processing (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*

- Developed statistical demographics models using Ruby and MongoDB for the Usage Intelligence team.
- Enhanced client estimates through impactful projects, including more accurate bias adjustments and cross-platform blending algorithm restructuring.
- Led product enhancements contributing to client retention and new sales, such as demographics estimates by country and region.
- Analyzed active user estimates and presented findings during quarterly reviews and in response to client queries.

Amazon Jan 2020 – May 2020
Applied Scientist Intern *Cambridge, MA*

- Developed machine learning baselines in Python and PyTorch for semi-supervised natural language classification with streaming data.
- Implemented self-training baseline with feedforward and LSTM deep learning architectures to demonstrate SSL effectiveness.
- Researched advanced algorithms like consistency regularization and created prototypes using Hedge Backpropagation in an online deep learning context.

WW International, Inc. May 2019 – Aug 2019
Data Scientist Intern *New York, NY*

- Developed word embedding representations for food items using spaCy and FastText based on food journal data.
- Evaluated embedding performance through qualitative analysis on downstream tasks like substitute food extraction, enhancing results with internal food ontology data.
- Implemented SQL and Python code as an end-to-end pipeline in the company's data science library, and showcased work at *HealthRecSys 2019 Workshop*.

Technical Skills

Programming Languages: Python, Ruby, R, SQL, Java, C#, JavaScript
Data and Machine Learning: Scikit-Learn, PyTorch, NumPy, Pandas, Matplotlib, Google BigQuery, FastText, spaCy, MongoDB
Data Science & Miscellaneous Technologies: Predictive Modeling, Exploratory Data Analysis (EDA), Statistics, Databases, Git, APIs, CI/CD, 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.