

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 2014

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

- Implemented several key improvements to the Demographics product, such as modeling population growth trends from UN population data to generate more accurate bias adjustment ratios, improving the cross-platform blending algorithm, and pushing major features such as granular demographics data to production.
- Performed custom analysis of active users estimates for key apps/cohorts during quarterly updates, in addition to solving customer queries on a regular basis.
- Owned, maintained and developed the Demographics product codebase by fixing bugs, restructuring jobs and services, writing unit tests, and implementing new features.

Amazon

Jan 2020 – May 2020

Applied Scientist Intern

Cambridge, MA

- Developed semi-supervised machine learning baselines in PyTorch in order to utilize unlabeled data for classification task.
- Implemented custom feed-forward and LSTM neural networks utilizing online deep learning for streaming data classification.

WW (formerly Weight Watchers)

May 2019 – Aug 2019

Data Scientist Intern

New York, NY

- Created word embeddings for food-items based on food journal entry data and food ontology data from a knowledge graph.
- Analyzed embeddings using qualitative analysis on downstream tasks, such as substitute food extraction.
- Integrated SQL and Python code for creating embeddings as a data pipeline within the internal data science library.

ViaSat Inc.

May 2017 – Aug 2017

Software Engineer Intern

Marlborough, MA

- Implemented alert management system for cryptographic routers using Elastic stack.
- Optimized Elastic stack to handle, on average, 30 times more alerts than the baseline system.
- Developed Windows installer in C# for Elastic stack, packaged with an open-source security framework.

Technical Skills

Languages: Python, Ruby, SQL, Java, JavaScript

Frameworks and Libraries: NumPy, Pandas, Scikit-Learn, PyTorch, MongoDB

Other: Git, LaTeX

Projects

German-to-English Machine Translation | Python, PyTorch

- Experimented with 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.