Lynn Samson

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EDUCATION

University of Massachusetts Amherst

Amherst, MA

Master of Science in Computer Science

Sep 2018 – May 2020

University of Massachusetts Amherst

Amherst, MA

Bachelor of Science in Computer Science and Mathematics (Double Major)

Sep 2014 - May 2018

EXPERIENCE

Data Scientist Aug 2021 – May 2023

Sensor Tower

San Francisco, CA

- Developed statistical models in Ruby to analyze user demographics for mobile applications, storing results in a MongoDB database.
- Improved bias adjustment accuracy, cross-platform consistency, and productionized estimates at finer granularities to boost client retention and acquire new sales.
- Analyzed active user estimates and presented findings, including insights and trends, to address client queries and supported quarterly reviews.

Applied Scientist Intern

Jan 2020 – May 2020

Amazon

Cambridge, MA

- Developed a semi-supervised machine learning model for natural language classification in a real-time streaming environment using Python, PyTorch, and data pipelines.
- Optimized self-training baselines with feed-forward and LSTM architectures to showcase the benefits of semi-supervised learning for intent recognition.
- Prototyped and validated an online semi-supervised LSTM model, leveraging adaptive learning methods like hedge backpropagation and consistency regularization.

Data Scientist Intern

May 2019 – Aug 2019

Weight Watchers

New York, NY

- Developed word embeddings for food items from food journal data, testing multiple approaches and implementing FastText for subword embeddings.
- Preprocessed and structured data using SQL (BigQuery), Pandas, and spaCy. Evaluated embeddings via substitute food extraction and recipe recommendations.
- Built and deployed an end-to-end model pipeline within the company's internal data science library, streamlining food recommendation tasks. Project showcased at *HealthRecSys 2019 Workshop*.

PROJECTS

Wildlife Species Image Classification | Keras, Flask, Docker, Kubernetes, AWS, Git

Feb 2025

- \bullet Developed a custom CNN with 5 convolutional layers and 3 dense layers, optimizing parameters such as learning rate, dropout, and batch normalization, achieving 85% accuracy on test data.
- Containerized model using Docker, deployed on AWS Lambda, and exposed as a web service via API Gateway.
- Packaged model for inference using TensorFlow Serving, implemented a Flask-based gRPC gateway, and deployed to an AWS EKS-managed Kubernetes cluster using Docker Compose.

Predicting Vaccination Status | Pandas, Scikit-Learn, Flask, Docker, AWS, Git

Dec 2024

- Developed and optimized multi-label classification models using XGBoost, Random Forest, and Logistic Regression, achieving a best mean AUC of 0.85 (within 1% of the top score).
- Deployed the XGBoost model as a Flask web service, containerized it with Docker, and deployed it to AWS Elastic Beanstalk, demonstrating end-to-end machine learning workflow.

TECHNICAL SKILLS

Languages: Python, Ruby, Java, SQL, JavaScript, HTML/CSS, R

Libraries and Frameworks: Pandas, NumPy, Matplotlib, Scikit-Learn, PyTorch, FastText, spaCy, NLTK, Flask Developer Tools and Cloud: Git, Docker, Kubernetes, CI/CD, Google BigQuery, Amazon Web Services (AWS Elastic Beanstalk, AWS Lambda, AWS Elastic Kubernetes Service)