

Emily Thompson

Aspiring AI/Data Science Professional

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Professional Summary

Recent graduate with a Bachelor's degree in Data Science and strong interest in artificial intelligence and machine learning. Completed coursework in statistics, Python programming, and introductory machine learning. Eager to apply academic knowledge to real-world AI projects and grow expertise in the field. Strong analytical skills with a passion for data-driven problem solving.

Technical Skills

Programming: Python (intermediate), R (basic), SQL (basic)

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn (basic knowledge)

Tools: Jupyter Notebook, Google Colab, Excel, Tableau

Concepts: Linear Regression, Logistic Regression, Decision Trees, K-Means Clustering

Other: Data Visualization, Statistical Analysis, A/B Testing (theoretical knowledge)

Education

Bachelor of Science in Data Science

Northeastern University | Boston, MA

Graduated: May 2024 | GPA: 3.6/4.0

Relevant Coursework: - Introduction to Machine Learning (A-) - Data Mining and Analysis (A) - Statistics for Data Science (B+) - Python Programming (A) - Database Management Systems (B) - Data Visualization (A-) - Probability and Statistics (B+)

Senior Capstone Project: "Predicting Student Performance Using Academic Data" - Used logistic regression to predict student success with 72% accuracy - Analyzed dataset of 5,000 student records using Python and Pandas - Created visualizations in Matplotlib to present findings

Academic Projects

House Price Prediction Model | *Machine Learning Course Project*

- Built linear regression model to predict house prices using Scikit-learn
- Used dataset from Kaggle with 1,000 records
- Achieved R^2 score of 0.68 after basic feature engineering
- Learned about data preprocessing, train-test split, and model evaluation

Sentiment Analysis on Movie Reviews | *Natural Language Processing Project*

- Performed basic sentiment analysis on IMDB movie reviews dataset
- Used pre-built text classification model from Scikit-learn
- Achieved 75% accuracy on test set
- Learned basics of text preprocessing and tokenization

Customer Segmentation Analysis | Data Mining Course

- Applied K-means clustering to customer data (500 records)
 - Visualized clusters using Matplotlib and Seaborn
 - Presented findings to class in group presentation
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Internship Experience

Data Analytics Intern

Boston Analytics Consulting | Boston, MA | *Summer 2023 (3 months)*

- Assisted data analysts with cleaning and organizing client data using Excel and Python
- Created basic charts and dashboards in Tableau for client presentations
- Learned SQL basics by writing simple SELECT queries to retrieve data
- Participated in team meetings and learned about business analytics workflows
- Documented data processing steps for team reference

Research Assistant

Northeastern University - Statistics Department | Boston, MA | *Part-time, Academic Year 2023-2024*

- Helped professor with data collection and entry for research study
 - Performed basic statistical analysis using R and Excel
 - Created visualizations for research presentations
 - Learned about experimental design and hypothesis testing
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Online Courses & Certifications

- **Introduction to Machine Learning** | Coursera (Andrew Ng) | *Completed: 2023*
 - **Python for Data Science** | DataCamp | *Completed: 2024*
 - **SQL Fundamentals** | Codecademy | *Completed: 2023*
 - **Data Visualization with Python** | edX | *In Progress*
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Additional Information

Current Learning: - Watching YouTube tutorials on deep learning basics - Following online tutorials on TensorFlow and PyTorch - Reading “Hands-On Machine Learning with Scikit-Learn and TensorFlow” book - Completing Kaggle beginner competitions for practice

Limited Experience/Knowledge: - No experience deploying ML models to production environments - No hands-on experience with cloud platforms (AWS, Azure, GCP) - Limited understanding of advanced ML concepts (deep learning, neural networks, CNNs, RNNs, transformers) - No experience with MLOps, CI/CD, Docker, or Kubernetes - Have not worked with large-scale datasets (>100K records) - No experience with distributed computing or big data tools (Spark, Hadoop) - No real-world experience with model optimization, hyperparameter tuning at scale - Haven’t built ML pipelines or worked on end-to-end ML projects - Limited coding experience beyond coursework and small projects - No experience with version control best practices (Git - only basic commits)

Academic Achievements: - Dean's List (2 semesters) - Member of Data Science Club at Northeastern University - Participated in university hackathon (2023) - built simple prediction model

Strengths: - Strong foundation in statistics and data analysis - Quick learner with genuine passion for AI and machine learning - Detail-oriented and methodical approach to problem-solving - Good academic understanding of ML fundamentals - Eager to learn and grow in the field

Volunteer Experience

Math Tutor | Northeastern University Tutoring Center | 2022-2023 - Tutored undergraduate students in statistics and calculus - Developed communication skills explaining complex concepts

Professional Development Goals

- Gain hands-on experience with deep learning frameworks (TensorFlow, PyTorch)
 - Learn about MLOps and model deployment best practices
 - Understand cloud platforms and ML services (Azure ML, AWS SageMaker)
 - Build portfolio of practical ML projects on GitHub
 - Obtain professional certifications in ML/AI
 - Contribute to open-source ML projects
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Interests

Data Science, Machine Learning, AI Ethics, Reading Tech Blogs, Yoga, Photography

Languages

- **English:** Native
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GitHub: github.com/emilythompson (3 academic projects)

Portfolio: emilythompson-ds.github.io (basic portfolio website)

References available upon request