

ABBY CARR

Data, Analytics, Creativity, and Visualizations



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EDUCATION

Northeastern University / Boston, MA
Khoury College of Computer Sciences

Bachelor of Science degree in Data Science, Minor in Mathematics

Honors: Dean's List | Honors College | GPA 3.5/4.0

Coursework Data Science and Social Justice | Info Presentation and Visualization | Adv. Machine Learning
Natural Language Processing for Robotics | Relational and NoSQL Databases

Concentrations Dataframe Manipulation | Statistics | Human-Computer Interaction | Requirements Analysis

KNOWLEDGE & SKILLS

Languages	Python • JavaScript	Tools	Sklearn • React	Tech	Tableau • Jupyter • Git
	Java • HTML/CSS		Selenium • D3		VSCode • Jira • AWS
	SQL • C+		PyTorch		Mac OS • Debian Linux

WORKING EXPERIENCE

Career TA and CoSMO Mentor / Northeastern University – Boston, MA Oct 2020 – May 2022

Hosted 1-on-1 mentoring sessions, reviewing >40 resumes and writing formal feedback with follow up.
Created and distributed 3 interview prep resources, 1 innovative mock case interview for students in tech.

Distribution Data Analyst Co-op / John Hancock Insurance – Boston, MA June 2022 – Dec 2022

Produced >3 original and updated >10 Salesforce dashboards with necessary changes for stakeholder.
Explored sector data with SQL Functions with Tableau, finding correlations presented to management.

Data Scientist Co-op / Solaria Innovation Labs, Liberty Mutual Insurance – Boston, MA June 2021 – Jan 2022

Contributed to pipeline work on 2 Innovation projects with updated code and documentation for clarity.
Explored >5 new project performance improvement techniques for the niche computer vision ML model.

TECHNICAL PROJECTS

Strut / Personal Project (Python, JS) Nov 2023 – Current

Acquiring audio data for 107 playlists of songs to analyze track similarities and build a playlist creator.
Constructing a website designed for users to select an artist for their statistically built Spotify playlist.

Rain Prediction Machine Learning / Machine Learning and Data Mining (Python) Sep 2022 – Dec 2022

Devised a ML project using Kaggle Australia Rain data to compare model and tuning performances.
Cleaned and balanced the 10 years of data to compare performance metrics of 4 hand-coded ML models.

Once Upon a Vis / Info Presentation and Visualization (Python, JS) Jan 2022 – July 2022

Transformed scraped metadata from >100 book into qualitative and sentiment analysis data in Python.
Animated visualizations with D3 designed for intuitive everyday use while leveraging design principles.

PAANIC! / NLP for Robotics, Research & RISE Presenter (Python, PyTorch). Jan 2022 – July 2022

Developed and showcased a self-driven project on NLP instruction and Robotic hazard tagging.
Explored deep learning tasks in Python with PyTorch and neural networks, using a BERT encoding layer.

Infectious Disease Simulator / Technica Hackathon (Python, HTML/CSS) Nov 2020

Created a website hosting a simulator with user input that utilizes graph theory and outputs visual output.

Cinefile / Database Design (SQL, Python, JS, React) Jan 2022 – May 2022

Constructed the backend database for a movie-rating website and prepopulated it with 93 Oscar-winners.
Implemented SQL functions for front-end use including limitations corresponding to several user roles.