

# 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

<b>Languages</b>	Python • JavaScript	<b>Tools</b>	Sklearn • React	<b>Tech</b>	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.