

Ansley Cooper

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Availability: July 1st - December 15th

Education and Awards

Northeastern University: Boston, MA GPA 3.94

Candidate for a Bachelors in of Science for Data Science + Biochemistry

Coursework: Advanced programming with Data, Database Design, Genetics, Biochemistry, Biology Project Lab,

Organic Chemistry 1 & 2, Bioinformatics, Machine Learning, Information Presentation and Visualization

2021/22 - Khoury College of Computer Sciences Dean's List

Vail Mountain School, Vail, CO, Senior Class of 2021, GPA: 3.95

Computational Experience

Languages: Python | SQL | R | CSS

Software: Rstudio | Sagemaker | Spyder | Tableau | Jupyter Notebook | Amazon Redshift | Dbeaver | Astronomer | Amazon EC2

Work Experience

Research Data Scientist, Waltham MA. Full Time

7/10/2023-12/15/2023

Constructed data ingestion pipelines from literature for ad-hoc meta analysis

Built ML models to determine confounding biological factors, data bias, and differential gene expression

Processed raw Illumina Seq reads to perform expression analysis

Created RShiny dashboards for R&D to store and visualize experimental data and enforce data governance

Collibra Data Science Intern, Remote. Full Time

6/20/2022-8/20/2022

Modeled data on customer engagement to create accurate data models

Created Churn Project Model 2.0 that saved over \$450,000 in revenue since deployment

Used presentation skills to communicate model deployment among CSM and BA branches

Used Tableau, DBeaver, Jupyter Notebook and Amazon Redshift to aggregate and process data

Pastry Chef at Cornerstone Chocolates and Confections, Edwards, CO

3/2021-8/2021

Performed rapidly under pressure to produce custom cakes and confections for customers

Delivered and displayed confections

Transitioned formal chemical training study to practical recipes, improving flavor in recipes

Personal and Academic Projects

Vail Mountain School Senior Thesis, *The Chemistry of Baking*

Investigated the increasing complexity of chemical reactions in baking throughout history. Wrote and published a cookbook using insight gained from work experience, research, and experimentation.

Analysis of Natural Language Processing in Fantasy Books - Semester Research

Analysis of Storm Data (Harvard Dataverse) - Quarter Project

Churn Dashboard - Built a dashboard for CSM to track potential risk via a Random Forest model to predict potential customer churn, built pipelines through AWS redshift to update models daily.

FSHD Biomarker signature - utilized meta analysis of published FSHD data to determine suitable biomarkers of Muscular Dystrophy (FSHD) progression, processed in house data to assess the equity across populations and response of selected biomarker candidates to therapeutics.

Extra Curriculars

Northeastern Women's Water Polo Participated in water polo practices scrimmages and tournaments

7/2022-present

Battle Mountain High School Debate Club

8/2019-5/2021

Qualified for Colorado State in Lincoln Douglas, Value Debate, Impromptu Speaking, and Extemporaneous Speaking

Qualified for nationals in World Schools Debate and Impromptu speaking

Advanced Academy Space Camp, Huntsville, AL Competitors Cup Winner. Honed leadership and teamwork skills

2/2020