Nathan Grant

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EDUCATION

University of Washington, Seattle, WA — *M.S. Data Science*

September 2021 - TBD

University of Massachusetts Amherst, Amherst, MA — *B.S. Computer Science & Statistics*

September 2017 - May 2021

GPA: 3.47
Relevant Courses: Data Structures, Algorithms, Statistics, Machine Learning, Data Science, Neural Networks, Web Programming, Simulation

RELEVANT EXPERIENCE

Tripods REU- UMass Amherst (Shahriyari Lab)

May 2020- August 2020

- Used unsupervised learning to discover the BAP1 genes responsibility for Uveal Melanoma
- Performed research on neural network-based methods of determining patients immune response to cancer
- Contributed to labs GitHub by automating tedious tasks using web scraping

PROJECTS

COVID 19 Simulation- https://github.com/N8Grant/COVID-19

Used a question-answer variant of BERT that was fine-tuned to determine the number of cases in a given county based on the most recent news articles. Ran this script for a couple of days in a row in order to get initial conditions for the SIR model. Used widely accepted parameters for the virus dynamics and also added randomized travel between counties.

Job Search Aid - NLP Model

Scraped LinkedIn weekly for new job posts in Computer Science and Data Science. Parsed the job descriptions to be processed by a question-answer variant of BERT that determined how much experience was needed for the position. Jobs that didn't require previous industry experience were then outputted to an excel spreadsheet to be later applied to.

Lazy Professor - https://github.com/N8Grant/LazyProfessor

Automated task to scrape new Arxiv papers daily, collecting data such as paper titles, abstracts, etc. Used a Longformer model with other neural architectures in order to make paper recommendations to users. Also finds users with similar interests in order to facilitate collaborator recommendations.

SKILLS

Languages: Python, Java, C, C++, JavaScript, SQL

Tools: Git, TensorFlow, PyTorch

Honors/Awards:
Dean's List, NSF Award

Soft Skills:
Leadership, Critical Thinking, Communication