

Benjamin Pfeffer

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North Attleboro, MA
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Data Scientist

Experience

MAY 2021 – AUGUST 2021

Data Science Intern / Change Healthcare, Remote

Assisted the Technology Enabled Services' Data Analytics team by working on two projects:

- 1) Dynamic Staffing Model: ~\$10 million increase in estimated yearly profit through the development of a proof-of-concept for optimizing clients' call center staffing to maximize profit and service level.
- 2) MIPS Reporting: Worked on updating the company's Merit-based Incentive Payment System (MIPS) reporting to identify clinicians with missed payment opportunity.

AUGUST 2020 – MAY 2021

COVID-19 Data Analyst / UMass Dartmouth, 285 Old Westport Rd, North Dartmouth, MA

Assist COVID-19 analysis team at the university by developing automatically updating private and public dashboards on various descriptive statistics using R, Python, and web scraping.

JUNE 2020 – JULY 2020

Data Science Intern–Escalation Management/ Dell EMC, Remote

Created live data visualizations and dashboards using Power BI. Created web crawlers and developed the beginning of a bot system in the department, saving 75% of the users' time in the process.

Recent Projects

Investigation of Hypertension Factors in a Local Area/ UMass Dartmouth / Spring 2023

For a client/hospital, derived explainable impact of demographic and personal factors in their community on a hypertension diagnosis using machine learning so they can improve their care for at-risk populations.

Improving CNN Predictions on Cancer Images Using a GAN/ UMass Dartmouth / 2021-22

Provided an improvement in AI's predictive capabilities on cancer tissue image diagnosis by counteracting the lack of publicly available medical data using generative modeling.

Education

MS Data Science / University of Massachusetts Dartmouth / 2021 - 2023

- 3.97 GPA

BS Data Science / University of Massachusetts Dartmouth / 2018 - 2022

- 3.99 GPA (Summa Cum Laude)
- Data Science Capstone Award
- Best Data Visualization ASA DataFest
- Vice President of Big Data Club

Skills

- Python, R, JavaScript, Java, HTML
- Visualization: Tableau, Power BI, D3
- Machine learning, deep learning, time-series forecasting
- Pandas, NumPy, Sci-Kit-Learn, PyTorch, TensorFlow, Matplotlib, Seaborn, BeautifulSoup, Selenium and more
- Statistical/Data analysis: R, Python
- Databases: SQL, PostgreSQL, SSMS, MySQL
- AWS, SAFe AGILE, Rally, git, Azure, ChatGPT