

Benjamin Pfeffer

benpfeffer.github.io

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Data Scientist

Results-oriented Data Scientist with a proven track record in leveraging advanced analytics and machine learning to drive data-driven insights. Demonstrated expertise in developing predictive models, optimizing processes, and solving complex business problems. Strong programming skills in Python, R and SQL, along with proficiency in data visualization tools such as Tableau and Power BI. Solid, broad understanding of machine learning techniques. Capable of developing systems that translate ideas, objectives, and large data sets into business value.

Experience

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

Used machine learning for a client hospital patient population to identify personal attributes and demographic features associated with a hypertension diagnosis to support the hospital's efforts to improve clinical quality for at-risk populations.

Improving CNN Predictions on Cancer Images Using a GAN / UMass Dartmouth / 2021 – 2022

Improved AI's predictive capabilities to diagnose cancer more accurately from 76 – 82% using generative modeling to augment the cancer tissue image dataset.

Data Science Intern / Change Healthcare / May 2021 – August 2021

Developed two projects for the Technology Enabled Services' Data Analytics team:

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

COVID-19 Data Analyst / UMass Dartmouth / August 2020 – May 2021

Developed automatically updating private and public dashboards on various descriptive statistics of university COVID-19 data using R, Python, and web scraping.

Data Science Intern–Escalation Management/ Dell EMC / June 2020 – July 2020

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.

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