

Ethan Vaz Falcao



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Boston, MA USA

EDUCATION

B.S.

Data Science & Mathematical Sciences

Minor.

Computer Science

Worcester Polytechnic Institute

Class of 2024

Programming Technologies:

- R
- Python
- Pandas
- Java
- SQL
- DAX
- Latex
- Or-Tools

Data Applications:

- Power BI
- Microsoft Office
- IQMS
- Azure
- Salesforce
- Microsoft Excel

Mathematical Sciences:

Principles of Real Analysis |
Matrices and Linear Algebra II |
Combinatorics | Probability Theory |
Mathematical Statistics | Linear
Programming | Mathematical
Modeling With Ordinary Differential
Equations | Numerical Methods

Data Science:

Modeling and Data Analysis |
Data Analytics and Statistical Learning |
Computational Data Intelligence

Computer Science:

Object Oriented Design Concepts |
Algorithms | Machine Learning

EXPERIENCE

Business Analytics Intern

Clara / Boston, MA / May 2021 – September 2022

- Analyzed payroll administration of healthcare consultants and ensured accuracy and completeness of their contracts.
- Prepared monthly operational and financial reports that were used to improve budgeting efficiency.

Analytics Intern

United Solutions / Leominster, MA / June 2022 – September 2022

- Developed Power BI dashboards with dynamic DAX formulas that reduced report generation time and improved data visualization, enabling more informed decision-making based on key trends.
- Implemented daily IQMS Reports using Python, reducing report generation time and providing critical insights into labor productivity trends

PROJECTS

Finding the Most Optimal NBA team for the 2022-23 Season

https://ethanfalcao.github.io/nba_team.html

Created a Linear Optimization Model, using Python-Pandas and Google's or-tools Linear-Solver, to output the most optimal NBA Team for the upcoming '22 -'23 NBA Season.

Predicting the FIFA World Cup

<https://ethanfalcao.github.io/worldcup.html>

Compiled and analyzed data regarding football stats of all international play from 1872 and evaluated and selected the most effective machine learning algorithm to predict the winner of the world cup.

Yelp Dataset Challenge: Detecting Fake reviews and Business Attributes

https://ethanfalcao.github.io/Yelp_dataset_Challenge.html

Predicted business attributes and identified fake reviews using machine learning techniques applied to the Yelp dataset.

LEADERSHIP/SERVICE

Data Science Club Treasurer

WPI / Worcester, MA / January 2023 – Present

- Informed the exec board of all the financial activities.
- Implemented a new record-keeping system that improved transparency and accuracy of financial transactions.

IT Volunteer

Catholic Charities / Worcester, MA / June 2022 – September 2022

- Managed and executed the database migration to Salesforce.
- Maintained and repaired hardware and software

Varsity Cross Country & Track and Field

Holliston High / Holliston, MA / August 2016 – March 2020

- 4000m school record