

Carl Horwitz

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SUMMARY

Data Scientist with over 20 years of High School teaching experience in upper level mathematics including Algebra 2, PreCalculus and AB Calculus. With a bachelor's degree in mathematics and recent completion of an immersive Data Science bootcamp I possess a strong foundation in mathematics, python, data analysis and modeling techniques. I am excited to leverage my skills and contribute to a dynamic team.

SKILLS

Data Science, Python (NumPy, Pandas, Scikit-learn, Keras), SQL, R, Data Analysis, Feature Engineering, Supervised learning, Machine learning, Classification and Regression techniques, Neural Nets, Tableau, GitHub, API's, TimeSeries, Data Visualization (Matplotlib, Seaborn, Tableau)

EDUCATION

General Assembly Data Science Certificate	April, 2023
Portland State University , Master's in Education: Curriculum and Instruction	May, 2020
University of Michigan , Bachelor of Science: Mathematics	April 2001

WORK EXPERIENCE

General Assembly, Data Science Fellow

Jan 2023 - April 2023 | Remote

- Completed 480 hours of data science coursework consisting of 6 projects and over 20 labs utilizing various Python packages for data acquisition, wrangling, visualization and predictive machine learning.
- Leveraged advanced data science analytics with supervised and unsupervised learning models to solve real-world data problems, direct project findings to technical and non-technical audiences.
- Used regression techniques to identify renovations that would have the most impact on a homes' resale values. Used 80 home features on over 2000 properties generating a model with an R-Squared of 92%.
- Collected Reddit post data through API calls and developed a Natural Language Processing (NLP) model to classify posts between two subreddit topics, correctly predicting posts with 78% accuracy.

High School Math Teacher

Denver School of the Art

August 2021 - July 2022 | Denver, CO

Kent Denver School

Sept 2016 - July 2020 | Denver, CO

Jewish Community High School of the Bay

Sept 2014 - June 2016 | San Francisco, CA

The Bay School of San Francisco

Sept 2009 - June 2014 | San Francisco, CA

The Branson School

Sept 2005 - June 2009 | San Francisco, CA

Good Hope School

Sept 2002 - June 2003 | St Croix, USVI

- Wrote and delivered highly engaging, student-centered courses spanning from Geometry through AP Calculus to around 100 students annually.
- Acted as dedicated advisor for ~10 high school students a year, effectively monitoring their academic progress & providing individualized coaching with a 100% graduation rate.
- Taught Advanced Placement Calculus over 15 times, with a cumulative passing rate on the AP Exam of over 98%.

Curriculum Writer

IDEA Public Schools

Jan 2021 - July 2021 | Remote

Amplify

Sept 2020 - Dec 2020 | Remote

- Developed innovative student-centered curriculum to teach Algebra 2, Precalculus & AB Calculus, consisting of educational materials such as teacher notes, answer keys & differentiation ideas for over 140 schools countrywide and a line of textbooks.