

# Thomas R Prich | Data Scientist & Analyst

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Portfolio: <https://tprich.github.io/> | <https://github.com/tprich>

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Data science professional with experience in data modeling and visualization and implementing Python for machine learning. The General Assembly Data Science Immersive program expanded my knowledge of Python while improving my presentation and analysis skills that I cultivated in my previous positions. I focus on making projects with a balance of efficiency, readability, and being interpretable. My strong problem-solving skills allow me to find stories in data and share them with others through data visualizations and Tableau.

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## Skills:

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|-----------------|-------------------|-------------------------------|------------------------|
| • Python        | • Scikit-Learn    | • Logistic Modeling           | • Recommender Building |
| • SQL           | • Pandas          | • Time Series Modeling        | • Google Cloud         |
| • Data Analysis | • Tableau         | • Natural Language Processing | • Streamlit Apps       |
| • Data Cleaning | • Linear Modeling |                               | • Adobe CS6            |
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## Relevant Projects:

### Board Game Recommender

- Scraped over 11 million user reviews and data on 1,000 board games
- Created a user-based recommender and filter function using Python that gave recommendations based on games that other users also liked and by specific features of a game
- Utilized Streamlit to make an app using the recommender code for the public to use

### Ames, Iowa Housing Data and Kaggle Challenge

- Built a Linear Regression Model using provided data about houses in Ames, Iowa to predict a house's sale price
- Used pandas and scikit-learn for feature engineering, data exploration and analysis, and model testing.
- Won the class Kaggle competition for best predictions

### Web APIs & Natural Language Processing

- Used an API to collect posts from Reddit
- Created Logistic Regression and K-Nearest Neighbors models to determine which subreddit a post belonged to
- Added in word count per post to enhance the NLP models to get better model accuracy

### Covid-19 Herd Immunity and Case Modeling Group Project

- Customized the CDC's web API to scrape Covid vaccination and case information
- Cleaned and consolidated data sources into a pandas data frame to be used in time series models
- Compared ARIMA predictions to SIR model predictions and to the actual data to see if a model could accurately predict cases

## Relevant Experience:

### Data Science Immersive Fellow - General Assembly

January 2022 – April 2022

- Expanded knowledge on Python, Machine Learning, and Artificial Intelligence through projects and weekly labs
- Collected, analyzed, visualized, and presented data using python libraries, including pandas and scikit-learn
- Collaborated with a team on technological projects and in a Hackathon

### Executive Assistant – Transamerica Financial Advisors

April 2017 – December 2021

- Managed multiple databases of client information, interacted with clients, prepared paperwork and reports
- Led trainings on new regulations, platforms, and products for advisors

### Assistant Planner - Burton Planning Services

June 2013 – May 2014

- Cleaned and analyzed crash data for analyzing the causes of crashes and possible design issues to be addressed
  - Created maps and other visuals using ArcMap and AutoCAD for intersection analysis and suggestions
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## Education:

### General Assembly

- Certificate of Completion: Data Science Immersive
- Full-time, with 400+ hours of experience

### The Ohio State University

- B.S. in City and Regional Planning
- Minor in Geographic Information Systems