

TIMOTHY MAI

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EDUCATION

Drexel University
Master's of Science in Data Science

Philadelphia, PA
Anticipated Summer 2027

Rowan University
Bachelor of Science in Computer Science

Glassboro, NJ
Fall 2024

SKILLS

- **Languages:** Python / Java / C++ / SQL
- **Web Technologies:** HTML / Dart / CSS
- **Frameworks:** Django / Firebase
- **Developer Tools:** Git / GitHub / VS Code / Jupyter Notebook
- **Productivity Tools:** Microsoft Office (Word, Excel, Powerpoint)

EXPERIENCE

Weather Impact on Energy Consumption

Personal
Present

Software: Python / Pandas / Matplotlib

- Developed a predictive model to forecast daily electricity demand using data from the U.S. Energy Information Administration (EIA) and NOAA weather stations
- Collected and preprocessed datasets, including electricity demand and time-series weather variables
- Performed data cleaning, handling missing values, and merging multiple datasets

Portfolio

Personal
Present

Software: TypeScript / ASTRO / CSS / JS

- Customized an Astro-Based Portfolio template to showcase projects, skills, and experience
- Configured and deployed the site using Cloudflare Pages with Git-based CI/CD
- Maintained version control and updates through GitHub integration

Water Potability

Personal
December 2024

Software: Python / Pandas / Google.colab

- Developed a data analysis pipeline to evaluate water potability and identify models with low prediction error
- Performed data cleaning, feature analysis, and error evaluation to improve classification accuracy
- Created visual statistical summaries (distributions, correlations, and trends) to enhance interpretability and user understanding

Grocery Store Database

Rowan University
December 2024

Software: SQL

- Built a structured SQL database to model a grocery store's products, employees, and operational data
- Implemented queries to track inventory levels and generate product and employee based reports
- Created visual reports and graphs to demonstrate the database functionality and support project goals

RELEVANT COURSEWORK

- **Data Acquisition and Pre-Processing:** Apply data acquisition, preprocessing, and curation techniques within the data science project lifecycle to develop reliable datasets, evaluating data availability, scale, and variability in a term project
- **Data Analysis and Interpretation Data Science:** Apply statistical and algorithmic data analysis methods to perform exploratory analysis and hypothesis testing on pre-processed datasets, generating interpretable insights through reproducible analytical workflows in a term project