Matthew Kim

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❖ Portfolio: mattkim17.github.io

EDUCATION

Northwestern University	**Expected Graduation in Dec. 2021**
B.S. Mechanical Engineering	*Evanston, IL*

- GPA: 3.33/4.0

University of Wisconsin-Madison	**2017-2018**
B.S. Psychology	*Madison, WI*

- GPA: 3.70/4.0

TECHICAL SKILLS

- **Programming:** Python, PostgreSQL, MATLAB
- **Data Skills:** Matplotlib, Seaborn, NumPy, Pandas, Machine Learning (Random Forest/SVM/ Logistic Reg.), Tableau
- **CAD Software:** NX 10
- **Skills:** Microsoft Office Excel/PowerPoint/Word, Academic Instruction, Sales, Effective communicator
- **Languages:** English (Fluent), Korean (Fluent)

RELATED PROJECTS

Twitter Sentiment Analysis – Cyberpunk 2077   **Dec. 2020 – Jan. 2021**

- Scraped, cleaned, and organized over 150,000 tweets and performed sentiment analysis using VADER
- Visualized the trends on the game's reception, twitter user behavior and demographics, and the impact of the game studio's decisions

Northwind: PostgreSQL & Python Data Analysis   **Nov. 2020 – Dec. 2020**

- Applied PostgreSQL to retrieve relevant data from the Northwind (a fictional company) database and carried out further exploratory data analysis using Python
- Created interactive visuals using Tableau to illustrate the company's revenue gains across the globe, employee performance, and trends
- Generated a correlation matrix and a Python function that could find potential products to bundle

Coffee Reviews: Data Analysis and Classification   **Oct. 2020 – Nov. 2020**

- Web scraped thousands of coffee reviews and performed extensive data cleaning and feature engineering
- Utilized Random Forest Classifier model to predict coffee bean origins
- Constructed word clouds to qualitatively analyze the coffee flavor and illustrate key flavors of each coffee type

ACTIVITIES

Scene + Heard, Northwestern Culture and Arts Publication	**Sept. 2018 – Present**
Writer	*Evanston, IL*

- Publish film reviews, critically analyze media, and convey information clearly
- Enhance writing and communication skills by writing critique pieces regularly

White Space Challenge	**Dec. 2019 – Apr. 2020**
Finalist	*Evanston, IL*

- Designed a stylish kitchen aid device to alert users of harmful cooking fumes
- Conducted stakeholder analysis, market research, and competitive benchmarking to create a novel product
- Created digital prototypes and carried out user testing resulting in recurrent improvements

Advanced Manufacturing Processes Lab	**Oct. 2019 – Jan. 2020**
Research Assistant	*Evanston, IL*

- Captured images of metal powder patterns resulting from metal additive manufacturing using the Alicona imaging tool
- Performed surface roughness data analysis and visualization through Gwyddion