

XINYI XU

Data Analytics student seeking Summer 2021 internship



EDUCATION

2020–
Current

Tufts University

MS in Data Analysis

📍 Medford, MA

2016–
2020

Pennsylvania State University

B.S. in Mathematics B.E. in Computer Science 📍 State College, PA



SELECTED PROJECT EXPERIENCE

2020

DATA-200 Foundations of Data Analytics

Tufts University

📍 Medford, MA

- Deployed a project which predicted the possible town-level factors that affect COVID-19 rates in Massachusetts.

2018

An Application of the Primal and Dual Linear Programming

Pennsylvania State University

📍 State College, PA

- Maximize the Benefit of a Company with Limited Machining and Raw Materials.
- Set up a linear programming (LP) in Mathemaraica, and wrote a function to repeat the process of choosing pivots by Simplex Algorithm to optimize LP in finitely steps so that solved the optimal solution about the amount of materials.
- Established the dual of Primary LP, obtained the unit price of machining and raw materials when the company got the maximum profit, and compare the unit price to determine whether it was more profitable or not to invest more if additional machining time and raw materials were available (unit price was known).

2017

The Optimization of Dfs (Depth First Search) Algorithm

Pennsylvania State University

📍 State College, PA

- Applied C programming to optimize DFS by pruning.
- In a minimum problem, reduced the number of Search Tree's branches according to the estimated lower bound of the current node in order to get the optimal solution or better solution faster.
- Attempted to optimize the time complexity of the algorithm, such as local search and double nested query.



CONTACT INFO

✉ xxu09@tufts.edu

🔗 github.com/xuxinyi0331/

☎ +1 814-852-9809

SKILLS

Experienced in running multivariate regression.

Wrote production-level
R/Python/Matlab

Performing **data analysis**, with a focus on engineering models

Machine Learning on R/Python