

Efthimios Vlahos

Efthimios.vlahos@stonybrook.edu | <https://github.com/EfthimiosVlahos> | <https://www.kaggle.com/efthimiosvlahoskitas> | <https://efthimiosvlahos.github.io/>

EDUCATION AND HONORS

SUNY Stony Brook University, Applied Mathematics and Statistics
Masters in Computational and Applied Mathematics

September 2021- Present day

- Cumulative GPA: 3.425/4.0
- Pursuing Advanced Certificate in Data & Computational Science
- Relevant Coursework: Numerical Analysis I II and III, Applied Linear Algebra, Differential Equations & Boundary Value Problems I and II, Probability and Statistics for Data Scientists, Machine Learning

CUNY Hunter College, Physics and Mathematics
Honors Bachelor of Science in both Physics and Mathematics

September 2016- August 2020

- Cumulative GPA: 3.6/4.0
- Related Coursework: Intermediate Mechanics, Intermediate Electricity and Magnetism, Electronics, Thermodynamics, Quantum Mechanics

Some Personal Projects

Netflix Data Analysis (Python):

September 2021

- Imported data set from Kaggle from Netflix to understand five key points: 1) What content is available on its platform 2) The similarities between the content 3) The network between actors and directors 4) What exactly Netflix is focusing on 5) Sentiment analysis of content available on Netflix
- Created various data visualizations such as distribution of content ratings on Netflix, top five directors/actors with respect to content, trend of content produced over the years on Netflix, and sentiment of content on Netflix

Student Performance Analysis with Machine Learning (Python):

November 2021

- Evaluated the performances of a set of students using machine learning techniques
- Created various data visualizations comparing math score vs reading/writing score, reading score vs writing/math score, scores vs parental education and etc. to see if there are any relationships between students' performance with respect to various variables
- Split data set into training and test sets while applying principal components analysis, logistic regression, and completed various statistical analyses

Skills

- **Programming Languages:** Python, R, SQL, Excel, Java, Scala, HIVE, AWS C, C++, JavaScript, HTML, CSS
- **Big Data & Machine Learning:** Tableau, Spark, Pytorch, Hadoop, MongoDB, (eg. scikit-learn, numpy, pandas, matplotlib, Seaborn),
- **Data Science & Miscellaneous Technologies:** A/B testing, ETL, Data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, Time series, Experimental design, Hypothesis testing, OOP, OOD, APIs, Excel, Git

Work History

Independent – East Meadow, NY

Tutor, 06/2020 - Present day

- Collaborated with students to complete homework assignments, identify lagging skills and correct weaknesses
- Planned lessons for allotted time to strengthen weak subjects and build skills

- Maintained detailed files and created charts tracking students learning progress

Capital One – Bethpage, NY

Teller, 01/2016 - 08/2019

- Answered customer inquiries regarding account balances, transaction history, services charges and interest rates
- Educated customers on use of banking website and mobile apps
- Assisted customers with setting up or closing accounts, completing loan applications and signing up for new services