DOUGLAS SILVERMAN

SOFTWARE ENGINEER
WEB DEVELOPER

CONTACT

914-610-1418
dpsilverman@umass.edu

WEBSITE

https://douglas-silverman.github.io

SKILLS

Programming Languages:
Python, Java, JavaScript, C

Machine Learning:
scikit-learn, numpy, pandas, matplotlib

Web-Development:
Vue.js, Angular.js, Node.js, MongoDB, Google Firebase

Software:
Visual Studio Code, git/GitHub, Eclipse

EDUCATION

University of Massachusetts, Amherst
B.S.in Computer Science & Mathematics
GPA: 3.26
Graduation Date: May 2021

COURSEWORK

Computer Science
Data Structures
Algorithm Design and Analysis
Web Programming
Computer Graphics
Artificial Intelligence
Natural Language Processing
Machine Learning

Mathematics
Multivariate Calculus
Linear Algebra
Abstract Algebra
Mathematical Modeling
Combinatorics and Graph Theory
Scientific Computing
Statistics I and II

EXPERIENCE

Coach & Crew – Web Development Intern

August 2019-March 2020

❚ Created different web pages using Angular, Typescript, HTML, and CSS
❚ Worked as a Remote Intern for a startup company that is based out of Los Angeles
❚ Communicated smoothly over different time zones, mainly through email and Slack

PROJECTS

Sentiment Analysis on COVID-19 Tweets

September 2020 - December 2020

❚ Trained Naive Bayes, Logistic Regression, Random Forests, and VADER from scikit-learn
❚ Selected feature vectors using TF-IDF vectorizer for better performance
❚ Predicted tweet sentiment and analyzed performance of each classifier
❚ Cleaned dataset of ~40k covid tweets from March and April 2020

Analysis of Sports Betting Strategies

March 2020 - October 2020

❚ Created 5 different models to simulate different gambling strategies
    ❚ Martingale, Oscar's Grind, Kelly Criterion, Poisson Distribution
❚ Simulated betting over a season of play and graphed profit over time
❚ Cleaned and normalized dataset of 3 seasons of games from MLB, NBA, NFL
    ❚ Team's change name/city over the years as well as column orders in CSV

LEADERSHIP

Umass Ultimate Frisbee Dev Team Captain

September 2018 - May 2019

❚ Leadership Committee - team management - tournament planning – logistics(2017-2019)