Arman Tavana

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Education

Master of Science in Data Science, **University of San Francisco**, San Francisco, CA — Expected July 2022

- Courses: Data Acquisition, Time Series, Machine Learning, Probability, Linear Algebra, Statistics, SQL, NoSQL, Machine Learning, Data Structures and Algorithms, Linear Regression, Deep Learning, NLP, Time Series, Distributed Computing (Spark), Data Visualization, Design of Experiments (A/B Testing)

Bachelor of Science in Computer Science**, St. Lawrence University**, Canton, NY — May 2021

- Minors: Mathematics and Economics
- Honors: - Dean's List: Fall 2018, Fall 2020, Spring 2021
  - Intercollegiate Tennis Association Scholar-Athlete: 2018-2021

Work Experience

SubWiFi, New York City, NY — November 2021 – Present
Data Scientist Intern (Remote)

- Build a pipeline to monitor data retrieved from the database and Hotjar to improve user experience
- Enhance the database schemas to have sufficient data to build models and improve the in-app experience
- Building a k-means clustering model (unsupervised learning) to detect super users in the web-app
- Design experiments for the marketing team to identify the target audience to expand our user base by 15%

University of San Francisco, San Francisco, CA — December 2021 – Present
Research Assistant

- Working collaboratively with University of Kentucky researchers on the benefits of Metformin (Anti-diabetic medication) in muscle growth for the elderly
- Applying data visualization and analysis technique in order to gather important information about the columns
- Building regression models to detect relationships between diet and response to exercise intervention among all participants

St. Lawrence University, Canton, NY — June 2020 – October 2021
Full Stack Developer

- Developed a website for a cafe to allow clients to make events and their customers to make reservations
- Built a dynamic and interactive website through use of JavaScript, HTML, CSS to ensure a unique user experience and MongoDB and Node.js to provide backend support
- Worked collaboratively with a professor to create a product that meets our client's expectation

Key Projects

Predicting Implicit Ratings

- Achieved a log loss of 0.4065 and ranked third in private leaderboard among 50+ teams in the Kaggle competition
- Developed multiple negative sampling techniques and different models such as matrix factorization and neural networks while using the method of embeddings for users and items

ML algorithm implementations from scratch in Python

- Regularized Linear and Logistic Regression with Gradient Descent, Naive Bayes, Decision Trees, Random Forest, K-means Clustering, Gradient Boost, Adaboost, Deep Neural Networks, recommendation engine, and automated feature selection algorithms

SLU-C Language

- Worked in a team of 3 building a program that allows the user to write code in our SLU-C language
- Used Regular Expression and techniques of functional programming to build the programming language that lets the user to have access to while loops, if statements, and recursive functions

Skills

Python (Pandas, NumPy, SciPy, Matplotlib), Scikit-Learn, PyTorch, SQL, NoSQL, AWS, PySpark, Spark MLlib, Java, HTML, JavaScript, C, Scheme