VICTORIA PUCK-KARAM

3rd Year Computational Data Science Student

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ABOUT ME

Third year Computational Data Science student with demonstrated experience in the Data Science and Software Development industries. Primarily focused on Machine Learning and Artificial Intelligence implementation and training. Passionate about the application of Mathematics and Statistics in Machine Learning algorithms. Skilled in Python, R, C#, SQL, Java, RDBMS, NoSQL databases, tensorflow, keras and sklearn.

EXPERIENCE

Data Science Intern, MAXAR Inc. Enterprise Geospatial Information Solutions

May 2022 -August 2022

- Developing complex geospatial tools and applications to support real time decision making for the Sales Team Demand Executions Analysts
- Communicating with multidisciplinary teams and articulate technical concepts and ideas effectively
- Providing support to the eGIS DBA with database processes, maintenance, and access
- Assisting with machine learning implementation in AWS Cloud using lambdas and services
- Deploying applications on AWS Cloud EC2 instances, S3, or on-prem servers

Research Assistant, Pennsylvania State University

November 2020-May 2022

- Developing Python algorithms to automate data analytics of accessibility elements in Digital Healthcare
- Utilizing web-harvesting technology to extract data from 10,000 US hospitals' user interfaces
- Normalizing and wrangling web scraped data for analysis
- Publishing a research paper in peer-reviewed journals

Project Manager, ACRP (FAA) Engineering Design Challenge

August 2021-December 2021

- Managed an engineering team to develop a UV-C device to combat spread of disease and particulate pollution in airports
- Collaborating and design reviewing with external industry experts to manufacture a rapid, functional prototype

Facilitation Intern, World In Conversation at Penn State

August 2021-December 2021

- Exercising adaptive leadership techniques to establish open communication and mutual trust
- Managed conflict in small groups for an entire semester by allowing space for all ideas and beliefs
- The largest university dialogue center in the world

INVOLVEMENT

Chair of Technology

Engineering Undergraduate Council
January 2020- Present

Chair of Professional Development

Association for Women in Computing
October 2021 - Present

Chair of Public Relations

Phi Sigma Rho
April 2021 - Present

EDUCATION

B.S. Computational Data Science

The Pennsylvania State University
College of Electrical Engineering and Computer Science
Class of 2024

Engineering Leadership Development (ELD) Minor

Mathematics Minor

PROJECTS

X-READ

- Designed Machine Learning algorithm, trained with a National Institute of Health (NIH) X-RAY database, to diagnose illnesses from an X-RAY scan
- Aimed to combat the Rural Health Care Crisis

Spot-Suggester

- Deployed and trained a machine learning algorithm utilizing data from the Spotify API
- Utilized cosine similarity functionality to determine mathematical similarity of MIDI files