VICTORIA PUCK-KARAM

ASPIRING DATA SCIENCE INTERN

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EDUCATION

B.S. Computational Data Science **Class of 2024**

Penn State College of Electrical Engineering and Computer Science
Minor in Mathematics & Engineering Leadership Development

EXPERIENCE

Data Science Intern, MAXAR Intelligence Inc. **May-August 2022**

Enterprise Geospatial Information Solutions

- Surfacing actionable insights from large-scale historical sales and geospatial data sets and visualizing data using an ESRI dashboard, to advise optimization and effective data-driven decision making essential to intelligence customers and in advising the sales execution teams
- Executing the business understanding step of the data science life cycle by facilitating interdisciplinary communication to translate client, product manager and sales team asks into executable technical tasks
- Automating robust ETLs (python & SQL) using an Apache Airflow server (AWS) to ingest data from S3 buckets into PostgreSQL RDS
- Training and deploying KNN machine learning in AWS using lambdas and services to predict geospatial yield and imagery availability
- Deriving data understanding through performing statistical analysis using Scikit learn, PyMC and NumPy and producing preliminary visualizations with matplotlib, Seaborn and PyPlot, as a precursor to modeling and finalized visualization

Research Assistant, Penn State University **Nov 2020-May 2022**

Website Accessibility Project

- Developing Python algorithms to automate data analytics of elements in Digital Healthcare, to draw insights about the accessibility of essential healthcare services.
- Utilizing web-harvesting technology to extract data from 10,000 US hospitals' user interfaces
- Normalizing and wrangling web scraped data for analysis

Facilitation Intern, World in Conversation **Aug-December 2021**

Penn State University

- 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 at the largest university dialogue center in the world

PROJECTS (CON'T IN PORTFOLIO)

Supply & Demand Dashboard: Building a dashboard to visualize supply and demand metrics, using a rendered a web map with layers to uncover supply insights to support the sales team in seeking out contracts, sales/building prospects and optimizing the creation of realistic customer expectations.

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 healthcare crisis.

Spot-Suggest: Creating a selection of music suggestions based on a user's playlist, based on several musical metrics, using the cosine similarity calculations & vectorized data to return 40 songs that are mathematically most similar.

Spotify Plotter: Visualizing users' listening history in the moral alignment plane, based on attributes of the users' song history such as acousticness and speechiness using Spotify API, connected using spotipy.