

# VICTORIA PUCK-KARAM

## ASPIRING DATA SCIENCE INTERN

Portfolio: <https://victoriapuck15.github.io/>  
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### EDUCATION

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#### **B.S. Computational Data Science**

**Class of 2024**

*Penn State College of Electrical Engineering and Computer Science*

Minors in Mathematics & Engineering Leadership Development

### EXPERIENCE

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#### **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 models 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

### PROJECTS (CON'T IN PORTFOLIO)

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**Supply & Demand Dashboard:** Building a dashboard to visualize supply and demand metrics, with a rendered web map containing 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 a CNN Machine Learning algorithm, trained with a National Institute of Health (NIH) X-RAY database, to diagnose illnesses from an X-RAY scan to combat the rural healthcare crisis.

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

### LEADERSHIP POSITIONS

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- **Engineering Undergraduate Council:** Chair of Technology
- **Association for Women in Computing:** Chair of Professional Development

