Tessa Cannon

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EDUCATION

University College London, London, UK — MSc in Artificial Intelligence for Sustainable Development
September 2024 - Present
Rice University, Houston, TX, USA — BA in Political Science, Minor in Statistics, Minor in Business
IES Study Abroad, Paris, FR— Business & International Affairs
August 2018 - May 2022
3.933/4.0 GPA, *Magna Cum Laude*
Lincoln High School, Portland, OR, USA — International Baccalaureate
September 2014 - May 2018
4.0/4.0 GPA, *Valedictorian*

RELEVANT COURSEWORK

Foundations of AI, Deep Representations and Learning, Probabilistic Modeling, Reinforcement Learning, AI for Earth Observation, AI for Sustainable Development, Applied Machine Learning and Data Science, Linear Algebra, Linear Regression

EXPERIENCE

Valtech, Portland, OR — Data Science Analyst
July 2022 - June 2024
- Derived customer insights from raw data to enhance targeted decision-making for a Fortune Global 500 company.
- Optimized marketing channels by constructing an automated end-to-end data pipeline with an estimated 12x ROI.
- Built ML models to predict customer behavior such as churn propensity and purchase likelihood.
- Created and automated dashboards in Tableau and Looker Studio to improve client's data accessibility.
- Identified and resolved pipeline issues by monitoring data integrity in an AWS Redshift database.
- Automated manual data processing workflows to save the client over 2 hours of labor per week.

Google-Rice University Data Science Research Experience, Houston, TX — Data Science Research Intern
May 2021 - July 2021
- Designed ML model using DenseNet and PyTorch to recognize and identify housing types in satellite images.
- Processed large datasets of satellite imagery and coordinate labels using ArcGIS, Python, and SQL.
- Earned 1st Runner-Up prize for a research presentation judged by Google experts and Rice University faculty.

Rice University, Houston, TX — Teacher's Assistant
January 2021 - May 2021
- Graded assignments and exams for Statistics for Social Sciences, a course taught by Dr. Carissa Zimmerman.

Political Science Research, Houston, TX — Research Assistant
September 2020 - December 2020
- Assisted a Rice University PhD candidate of Political Science in research into racially polarized voting systems.
- Designed and generated data visualizations in R to simulate and illustrate desired project outcomes.

Oregon League of Conservation Voters, Portland, OR — Intern
January 2017 - June 2017
- Researched and tracked proposed climate legislation at the congressional level in the state of Oregon for lobbyists.
- Informed voting citizens through phone banking about events and policies to combat climate change.

ACTIVITIES

Data Science Senior Capstone Project, Houston, TX — Senior Team Member
January 2022 - May 2022
- Sponsored by the Houston Fire Department to streamline fire inspection and prevention with a team of 6 students.
- Developed a data science pipeline to create a predictive fire risk model and an interactive city property dashboard.

Rice University Students Demand Action, Houston, TX — President and Founder
December 2019 - May 2021
- Founded Rice University Chapter of Students Demand Action to reduce gun violence in the state of Texas.

SKILLS

Languages— native English, fluent French
Technical Skills— Python, R, SQL, Command Line, Machine Learning, Deep Learning, Data Processing, Data Visualization
Tools and Software—PyTorch, AWS Redshift, Tableau, MS Excel, MS PowerBI, Google Big Query, Looker Studio, ArcGIS

AWARDS

- Rice University President's Honor Roll (2019-2020)
- Pi Sigma Alpha, National Political Science Honor Society (2022)
- 1st Runner Up Poster Presentation at Google Data Science Research Internship (2021)
- National Merit Scholarship Winner (2018)