Peach Saengcharoentrakul

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EXPERIENCE

Lab Assistant   Seattle, WA
University of Washington Information School   Aug 2022 – Aug 2023
- Extracted income information from 1,000 judicial collections filings from a county district court database in order to inform interventions around reducing the burden of medical debt.

Teaching Assistant   Seattle, WA
University of Washington Information School   Sep 2021 – Jun 2022
- Led weekly labs with 27-36 students to reinforce key concepts from lectures; acted as a student-professor liaison.
- Taught data wrangling, analysis, and visualization techniques, statistical inference methods such as regression models and Bayesian analysis, in R and Python, working with libraries such as tensorflow and keras.
- Debugged codes, graded and provided feedback on 1,600+ assignments, and held office hours and one-on-ones.

Clinical Researcher (Data and Analytics Engineer)   Seattle, WA
Seattle Children's Hospital   Jan 2021 – Jun 2022
- Implemented histogram equalization and segmentation algorithms in Python to identify juvenile idiopathic arthritis (JIA) from medical and thermal images stored on Azure.
- Developed a mobile app in Flutter and Tkinter to identify JIA using optical imaging from mobile cameras.
- Accelerated the development process in a cross-functional team by adhering to Agile scrum methodologies.

Data Analyst Intern   Bangkok, TH
Prudential Life Assurance plc.   May 2021 – Sep 2021
- Consumed Apache Kafka topics using Azure Databricks to conduct customer journey analysis of 500k customers, using Python and SQL to clean, aggregate, and analyze and visualize customer journey data with Sankey diagrams.
- Implemented a dashboard with Power BI and Plotly Dash to automate visualization of data for stakeholders. Reduced team's data processing & visualization time by 20 minutes a day.

PROJECTS

Get Medicare Diabetes Prevention Programme Website | *UI/UX, PM, Node.js, Next.js*
- Developed a platform for people to assess their eligibility for the MDPP with Next.js and Node.js
- Conducted user research with 47 epidemiologists, healthcare providers, and pre-diabetics to identify and improve the problem space; created and implemented A/B testing, and improved the accessibility of the website.
- Facilitated communication between four members and project sponsors to address questions, and resolve conflicts; coordinated meetings and delegated tasks to maintain deadlines while adhering to project goals.

MNIST Handwriting Analysis | *Python, Tensorflow, Keras*
- Implemented different machine learning algorithms including convolutional neural networks using tensorflow and keras to classify digits (0-9) from images. Has a 98% accuracy on the MNIST dataset.

What Is Warming Up Our Planet? | *Observable, D3.js*
- Developed interactive data visualizations using D3.js to observe the effect of multiple industries on climate change.

Pet Adoption Website | *Node.js, Rest API, MongoDB/Mongoose, Azure*
- Developed a back-end web architecture for a pet adoption website and integrated it with an existing front-end. Created a REST API and used MongoDB for data management. Conducted unit tests and deployed the web app using Azure.

Impact Of Climate Change In Alaska On Rougheye And Blackspotted Rockfish | *R*
- Analyzed and wrangled data from NOAA datasets to develop a generalised additive model using R in order to evaluate biological responses of rougheye and blackspotted rockfish to rapidly changing conditions in Alaskan waters.

EDUCATION

University of Washington   Seattle, WA
B.S. Informatics (Data Science), B.A. Philosophy (Honors); GPA: 3.83   Jun 2022
- Relevant Coursework: Advanced Methods in Data Science, Data Structures & Algorithms, Elements of Statistical Methods, Induction and Probability, Databases & Data Modeling, Interactive Visualization, Client-Side Development, Server-Side Development, Software Architecture