Seiji M. Sakurai

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EXPERIENCE

National Graduate Institute for Policy Studies

Tokyo, Japan

Research Assistant

July 2018 - August 2018

Seiji.Sakurai@outlook.com

Analysis: Analyzed higher education policy by synthesizing datasets

Processing: Processed 30+ GB of data related to higher education using Pandas and Numpy

Alpaca AI Kobe, Japan

Software Engineer/Researcher

May 2016 - August 2016

Implementation: Implemented an AI based on Google Deep Mind Paper

Proposal: Proposed and implemented new machine learning algorithm for financial transactions

Research: Documented findings and proposals which was considered during the creation of the actual service

PROJECTS

Patient fMRI Classification: Programmed an algorithm using the XGBoost random forest in order to use MRI data to classify schizophrenia patients through the use of modal fMRI data. My research successfully improved algorithm precision and accuracy by 8% than previous study. The algorithm also identified potential regions that may function as biomarkers.

Classification of Un-Detonated Explosives Using Aerial Photography: Created a machine learning algorithm that uses photos from World War II to classify an area is likely to contain un-detonated explosives. The training data was created through the use of a image processing algorithm in OpenCV. I hand classified the 1750+ images used to train the algorithm.

Stamp Rally Web App to Promote Tourism: Created a web app with a team to promote tourism in a city in the Tohoku region, effected by the 2011 earthquake. The project was done in conjunction with the local government who helped us in giving direction and suggestions for the project. The web app I created incentivized visitors to explore the various land marks in order to get a reward from a local shop.

AWARDS/RECOGNITION

GENIUS Science Olympiad (International): Finalist for Environmental Science Category

Japan Science and Engineering Challenge (National): Final 60 Papers

Local Innovation Competition (National): Corporate Award

World's Scholar Cup Kansai Round (Regional): 1st Place Team / Team Leader

Writing on Quora: My answers have been sent to a total of 10 million users

Kendo/Japanese Fencing: Shodan

EDUCATION

University of Waterloo

Waterloo, Ontario

Candidate for Bachelor in Honours Mathematics;

Sep. 2018 - Feb. 2023

SKILLS

Languages: Python, C++, HTML, CSS, Racket(Scheme), Java

Technologies: AWS, NumPy, Pandas, Matplotlib

CERTIFICATION

Coursera.org: [] Data Scientist's Toolbox, R Programming, Regression Models

Stanford Lagunita: America's Poverty and Inequality