Justin Chang

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OBJECTIVE

To use Machine Learning to solve problems and revolutionize society.

EDUCATION

Master of Science, Computer Science: San José State University
GPA: 3.91 Graduation Date: May 2022
Bachelor of Science, Computer Engineering: University of California San Diego
Graduation Date: December 2016

PROGRAMMING LANGUAGES

Python, Java, JavaScript, HTML, CSS

LIBRARIES AND TOOLS

TensorFlow, Pandas, NumPy, Matplotlib, PyTorch, SciPy, Scikit-learn, Keras, MySQL, NodeJS, React

WORK EXPERIENCE

Software Engineer, Nikaya (July 2023 - Present):

- Worked on full stack development for software interfaces for remote patient monitoring.
- Developed back end in Golang and front end in ReactJS.
- Designed Machine Learning models for disease classification to demonstrate future endeavors with customer data.
- Participated in sales presentations about Machine Learning to clinics, partners, and customers.

Network Engineer, Auto-Chlor System (July 2018 - April 2019):

- Configured and deployed all devices such as routers, handheld computers, desktops, and phone systems to be sent out to our branches.
- Required excellent communication skills to quickly and cordially resolve problems through tickets for any problem from any of our 600+ employees.
- Automated the creation of Active Directory accounts using PowerShell scripts that reduced workload for account creation by 80%.

PROJECTS

Faking Sensor Noise Information (August 2021 - May 2022):

- Designed a GAN and a classifier to analyze state of the art techniques for generating fake sensor noise patterns and classifying pictures based on source camera models.
- Applied and analyzed various denoising techniques to extract sensor noise patterns.
- Compared various features that were used as inputs towards the classification model.
- Achieved high accuracy with classification of cameras and successfully attacked classification models.

ReLeaf (Dec 2020):

- Designed and trained a Neural Network to classify plant leaves and their diseases.
- Processed a subset of the PlantVillage dataset to train and test our model.
- Conducted various experiments with different Neural Network architectures.
- Achieved a training accuracy of 99% and a test accuracy of 75% by applying transfer learning with a pretrained model named Inception V3.