

Anand Jain

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EDUCATION	University of Chicago <i>B.S.</i> , Computer Science. Santa Clara High School	Expected Jun, 2021 2017
COURSES	●Algorithms ●Discrete Math ●Abstract Linear Algebra ●Mathematical Logic ●Inventing Interactive Devices ●Electronics ●Computer Systems	
SKILLS	Languages: Python, Julia, Go, Bash, C Packages: PyTorch, Gym, TensorFlow, Scikit-Learn, Pandas, Flask Spoken: Fluent English. Classroom Hindi and Spanish	
EXPERIENCE	Fermilab - LSST Machine Learning Intern ●Researched the applications of neural differential equations to astronomy for the Large Synoptic Survey Telescope ●Used the PLAsTiCC Astronomical Kaggle dataset to train a neural network to approximate the differential equation of different astronomical objects' light curves (brightness over time) ●Presented a poster of my work on Neural-ODEs at the 2019 LSST Conference in Arizona ●Worked with peers and mentors to create a high level API for fast prototyping and ensemble training of neural networks for astronomy datasets, primarily in PyTorch • Tools: TorchDiffEq, DifferentialEquations.jl, PyTorch, TensorFlow, Matplotlib, Astropy, Python, Julia	Jun 24 - Aug 31 2019
PROJECTS	Sips: Sports Data Tool on Google Cloud ●Created Python package to track odds and statistics for a variety of sports ●Have collected over 1 GBs of data using Linux virtual machines on Google Cloud ●Trained TensorFlow win/loss classification and LSTM odds prediction neural network models on Sips data ●Wrote Flask app to visualize odds using Matplotlib • Tools: Python, Requests, Beautiful Soup, TensorFlow, Flask, Matplotlib • Link : github.com/anandijain/sips Gym-Sips: Reinforcement Learning Environment ●Custom reinforcement learning environments using the OpenAI Gym package for the output data of sips ●Agent takes actions to buy the home team or the away team moneyline, and receives reward at the end of the game ●Agent learns hedging strategies to mitigate risk • Tools: Python, Gym, TensorFlow, TF-Agents • Link : github.com/anandijain/gym-sips	Oct 2018 - Now Feb 2019 - Now
ACTIVITIES	UCQuantum (.org) - Founder/President ●Unofficial club applying to become an official RSO for UChicago undergrads interested in quantum computing ●We have 50 facebook group members and 10 active members ●We are planning to host talks, hackathons, and lab tours with faculty on campus	Aug 2019 - Now