

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/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 in astronomy for the Large Synoptic Survey Telescope (LSST) ●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 poster of my work on Neural-ODEs at 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 <ul style="list-style-type: none">● Tools: TorchDiffEq, DifferentialEquations.jl, PyTorch, TensorFlow, Matplotlib, Astropy, Python, Julia	Jun - Aug 2019
PROJECTS	Sips: Sports Data Tool on Google Cloud ●Attempting to deploy data scrapers that gather information about sports and the odds market, feed this data into different neural network architectures and evaluate model performance. ●Using Linux VMs on Google Cloud, I run Python scripts to track REST APIs for odds and sports statistics websites with BeautifulSoup ●Trained TensorFlow win/loss classification and LSTM time-series prediction neural network models on Sips data ●Wrote Flask app to visualize odds using Matplotlib <ul style="list-style-type: none">● Tools: Python, Requests, BeautifulSoup, TensorFlow, Flask, Matplotlib● Link : github.com/anandijain/sips	Oct 2018 - Now
	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 risk mitigating hedging strategies <ul style="list-style-type: none">● Tools: Python, Gym, TensorFlow, TF-Agents● Link : github.com/anandijain/gym-sips	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