NATASHA SHARMA

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Website: natsharmaportfolio.github.io

Github: github.com/natsharma

Education

New York University Expected Dec 2020

B.A. in Computer Science

Relevant Coursework: Machine Learning, Data Structures, Basic Algorithms, Computer Security, Computer Systems & Organizations, Computer Graphics, Applied Internet Technology & Networks, Discrete Mathematics, Linear Algebra, Calculus I&II, Finance and Tech, Int'l Politics

Experience

Y Combinator · software engineering intern **Feb 2020 - Present**

- Holy Grail, a YC-backed startup (S19), builds Probabilistic Deep Learning models to find optimal solutions for R&D sustainability problems: better energy storage, to enable transition to 100% renewable energy worldwide
- Designed and deployed a probabilistic deep learning model on Sagemaker
- Ingested dataset, used Hypertunity to find optimal model, printed optimal point or convergence
- Fixed bugs that prevented Databases from parsing/reading conflicting queries

Bayesquare · software engineering intern **June - Aug 2019**

- Helped Bayesquare Foundation develop Machine Learning applications to Finance
- Was the only Undergraduate intern, worked with PhDs and Researchers
- Applied Bayesian statistics to foreign exchange trading project for Goldman Sachs executive; using KNN, Keras + Tensorflow to estimate portfolio returns
- Extracted and filtered climate change Data using various Python libraries (BeautifulSoup, created a Pandas DataFrame, Pickle module) for a project that predicts oil futures

TAVTech Fellowship · software engineering & machine learning fellow **Dec 2018 - Jan 2019**

- 5-week fellowship in Tel Aviv, Israel in Machine Learning & Computer Vision (TensorFlow, Keras, NLP, Deep Learning); Taught by Gil Levi, PhD in Deep Learning
- Built Computer Vision Project that identifies and tracks growth of Cancerous Moles on skin, created powerful Image Classification model using Keras, SciPy, Tensorflow, and Python
- Pitched my Project to Israeli Venture Capitalist firms ICV and Elevator Fund, Received grant

J.P. Morgan · software engineering intern **Oct 2016 - Jan 2017**

- Developed mobile app for BRIC Arts Media non-profit organization; Allows users to upload long-form Video Files for streaming, using Java Media Framework API, Node.js, and Passport
- Assisted in Credit Card division automation, payment automation and processing with JSON
- Team Captain for J.P. Morgan's Code for Good Hackathon, Finalist

Skills

Languages & Frameworks: Java, C/C++, Python, JavaScript, HTML5/CSS3, SQL, Git, Tensorflow
Skills & Interests: Sudoku, 35mm film photography, science experiments