

# HURSH DESAI

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## EDUCATION

### New York University, Leonard N. Stern School of Business

New York, NY

*Bachelor of Science in Business and Political Economy, Bachelor of Science in Computer Science*

*Expected May 2021*

- **Overall GPA:** 3.3/4.0 | **Last Semester GPA:** 3.7/4.0
- **Study Abroad:** London, UK (Fall 2018) and Shanghai, CN (Spring 2019)
- **Relevant Coursework:** Machine Learning, Data Structures, Decision Models & Analytics, Linear Algebra
- **Projects:** ASL Letter Translator (Convolution Neural Net), CAPM Derivation, PEEA Report (Panel Regression)

### Milpitas High School

Milpitas, CA

- **GPA:** 4.1 (top 2%) | **SAT:** 1490/1600 | **Activities:** Baseball Team Captain, 180+ Volunteer Hours *May 2017*

## PROFESSIONAL EXPERIENCE

### Campaign Financing Analysis

New York, NY

*Research Assistant*

*September 2019 – Present*

- Creating data pipelines using SQL to analyze 16.4 million rows of political contribution data from the DIME database
- Using Tableau to visualize relationships between contributor demographics and political contributions over 1979-2014

### Botfactory

New York, NY

*Data Engineering/ Visualization Intern*

*June 2019 – August 2019*

- Utilized Odoo's ORM API to automate SQL queries to pull, store, and manipulate inventory/manufacturing data
- Built a dynamic 'just-in-time' manufacturing scheduler GUI in XML to visualize this data and streamline company's manufacturing process, which resulted in a 3x increase in procedural efficiency

### Peblio

New York, NY

*Data Analyst Intern*

*June 2019 – August 2019*

- Created data collection and analysis tools to track click-level data for teacher and student behavior on product website; analyzed data and recommend concrete changes that resulted in 20% increased use of unpopular features
- Built long term customer acquisition and retention data analytic tools in Google Analytics for marketing purposes

## EXTRACURRICULAR ACTIVITIES

### Effects of Immigration and Inequality on Science

New York, NY

*Machine Learning - Stern Undergraduate Research Project*

*September 2019 – Present*

- Leveraging machine learning tools to match web-scraped biographical data for more than 90,000 US scientists and their parents with census records to analyze the influence of immigration on career outcomes and invention

### Predictive Customer Behavior Modeling

Shanghai, CN

*Predictive Modeling - Hackathon*

*April 2019*

- Used Pandas and NumPy to pre-process unstructured customer data (both categorical and numerical features) regarding personal transactions, and then Pytorch to predict the binary probability of a new customer buying an HSBC product

### JustPick App

Milpitas, CA

*Mobile App - Personal Project*

*November 2018 – January 2019*

- Designed app in Flutter to graph public sentiment on important subjects over time, built out app's backend NoSQL database and self-taught graphic design and Google's Material Design in order to create an attractive UI/UX with Dart

### Stock Market Analysis Visualization

Milpitas, CA

*Data Visualization - Personal Project*

*January 2018 – February 2018*

- Employed Pandas, Seaborn, and Matplotlib to graphically visualize stock ticker data analysis including prices, returns, risk and variability; Monte Carlo simulation, confidence intervals, and correlation charts were used to accomplish these tasks

### Science Gurus

Fremont, CA

*Cell-Science - Research Intern*

*June 2016 – August 2016*

- Researched relationship between Bcr-Abl gene and colon cancer to present a comprehensive report to a panel of experts; used cutting edge biotechnology/bioinformatics tools to explore the industry process of drug design/discovery

## SKILLS & INTERESTS

- **Skills:** Python (Data Analytic Tools) · SQL/NoSQL · Tableau · PyTorch (ML Modeling) · Flutter · Excel (Solver)
- **Foreign Languages:** Gujarati (Advanced) · Hindi (Elementary) · Spanish (Elementary) · Chinese (Conversational)
- **Interests:** Producing Music (Ableton) · Video Editing (Davinci) · Graphic Design (Photoshop) · Email Newsletters