

# THET NAING

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## EDUCATION

### Columbia College, Columbia University

*B.A. in Neuroscience and Statistics (GPA: 3.63/4.00)*

**Sep 2015 – May 2019**

New York, NY

## PROFESSIONAL EXPERIENCE

### IQVIA

**Jul 2019 – Present**

*Associate (Analyst), Consulting Services*

*New York, NY*

- Lead the development and delivery of data-driven commercialization strategies for novel therapeutics, most recently winning a ~\$500,000 follow-up engagement with a top pharmaceutical manufacturer
- Head workstreams to develop predictive models and competitive market analyses using various databases
- Analyze patient prescription data to forecast treatment affordability and recommend optimal pricing strategies
- Increase efficiency on multiple analytics and forecasting projects by automating predictive models with Python

### Columbia Data Science Institute

**May 2018 – Aug 2018**

*DSI Summer Scholar*

*New York, NY*

- Applied natural language processing (NLP) techniques to perform terminology extraction, sentiment analysis, and topic segmentation on legislative texts to discern differences in international approaches to antitrust regulation

### Columbia University Senate

**Jun 2016 – May 2019**

*Data Analyst and Consultant*

*New York, NY*

- Designed and launched qualitative surveys to assess the satisfaction of over 15,000 Columbia students and faculty
- Applied SQL and Python to clean, analyze, and visualize annual survey results to identify key areas of improvement in student and faculty satisfaction
- Leveraged data visualizations to deliver actionable policy insights to the Columbia University Board of Trustees, resulting in the growth of student resources including the creation of new campus spaces for minority students

### Columbia Visual Science Lab

**Sep 2015 – May 2019**

*Researcher*

*New York, NY*

- Pioneered original research on the application of machine learning classifiers to the detection of optic neuropathies using clinical measurements, achieving up to 97% accuracy in classifying patients
- Investigated the application of convolutional neural networks (CNNs) to assess the potential value of deep learning algorithms built into diagnostic imaging machines

## PROJECTS (see [tinaing.app](https://tinaing.app))

- **AniMate – Anime Recommender:** Anime recommendation system powered by collaborative filtering; accompanying Python web application built with Flask, Elasticsearch, and PostgreSQL
- **Bitcoin Price Forecasting:** Bitcoin price forecasting in Python with recurrent neural networks, long short-term memory neural networks, and Facebook's Prophet framework
- **Credit Card Fraud Detection:** Credit card fraud detectors trained on a heavily imbalanced dataset of credit card transactions using SMOTE oversampling with artificial neural networks and gradient boosting machines
- **Handwritten Digit Recognition:** Convolutional Neural Networks for handwritten digit recognition; model ranked in top 12% of Kaggle's Digit Recognizer competition
- **Donald Trump Twitter Analysis:** Sentiment analysis of Donald Trump's Twitter using NLP techniques and Valence Aware Dictionary and Sentiment Reasoner (VADER)

## SKILLS

Machine learning		Deep learning		Analytics	Data analysis and visualization		
Python	NumPy	Pandas	SciPy	Matplotlib	Scikit-learn	Keras	TensorFlow
SQL	Flask	HTML	CSS	Bootstrap	Git/GitHub	Tableau	NLTK