

THE T N A I N G

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EDUCATION

Columbia College, Columbia University

Sep 2015 – May 2019

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

New York, NY

- Relevant coursework: Machine Learning, Applied Statistical Computing, Calculus III

PROFESSIONAL EXPERIENCE

IQVIA

Jul 2019 – Present

Associate (Analyst), Consulting Services

New York, NY

- Lead day-to-day deliverable development and client interactions to determine optimal pricing and market opportunity for novel therapeutics
- Develop robust models for market sizing, revenue forecasting, and competitive market analysis for clients across many major global markets
- Collaborate with IQVIA's AI/ML team to plan and present business development proposals to potential clients

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 understand differences in international approaches to antitrust regulation

Columbia University Senate

Jun 2016 – May 2019

Data Analyst and Consultant

New York, NY

- Designed and launched surveys to assess the satisfaction of over 15,000 Columbia students and faculty
- Developed reproducible Python notebooks to clean, analyze, and visualize annual survey results with the aim of identifying areas of improvement in student and faculty satisfaction
- Leveraged data visualizations to deliver actionable policy insights and recommendations to the Columbia University President and Board of Trustees, a non-technical audience

Columbia Visual Science Lab

Sep 2015 – May 2019

Researcher

New York, NY

- Studied the application of Random Forest classification models to the detection and classification of optic neuropathies using clinical measurements, achieving 93% accuracy in classifying patients
- Investigated the application of convolutional neural networks (CNNs) to assess the potential value of deep learning algorithms built into imaging machines for onsite screening of patients

PROJECTS (see www.tnaing.app)

- **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)
- **House Price Regression:** Prediction of house sales prices with advanced regression techniques such as XGBoost

SKILLS

- **Languages:** Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Keras, TensorFlow, NLTK), SQL, R
- **Techniques:** Data analytics, data analysis and visualization, machine learning, deep learning, NLP
- **Additional Skills:** Tableau, Think Cell, Microsoft Excel, Microsoft PowerPoint