AVA (TONG) YANG

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Data-driven and analytical person with experience of leveraging **Statistical Analysis**, **Machine Learning**, **A/B Testing**, and **Data Visualization** tools to identify insights and suggest business recommendations. Well-versed in communicating key findings to cross-functional groups. Proficient knowledge in **Analytics**, **Statistics**, and **Programming**.

EDUCATION

Columbia University

New York, NY

Master of Science in Operations Research, Concentration in Data Science, GPA 3.6/4.0

Sep 2019 – Feb 2021

• Coursework: Machine Learning, Deep Learning, Business Analytics, Data Visualization, Stochastic Models

Zhongnan University of Economics and Law

Wuhan, China

Bachelor of Science in Information and Computer Science, GPA 3.8/4.0

Sep 2015 – Jun 2019

- Honors: National Scholarship (1%), College Academic Scholarship (2016, 2017, 2018)
- Coursework: Statistical Inference, Operations Research, Econometrics, Financial Mathematics

TECHNICAL SKILLS

- Language & Framework: Python, SQL, PyTorch, TensorFlow, Keras, Bash
- Data Analysis & Visualization: MySQL, Tableau, Plotly | PowerPoint, Excel
- Big Data: Google Cloud Platform, AWS (S3, Sagemaker, Gateway), Google Analytics
- Machine Learning: Logistic Regression, SVM, XGBoost, Random Forest, Clustering, NLP, Neural Networks

WORK EXPERIENCE

Articence (Intelligent Hiring Platform Startup)

New York, NY

Data Science Intern (Natural Language Processing, Python, Tableau, AWS)

Jun 2020 - Aug 2020

- Built a Job & Resume Analyzer Web App product using Machine Learning model in Python, to predict key skills match with model accuracy achieved of 90%, delivered personalized career guidance to customers
- Scraped software websites and clustered ~500 text reviews utilizing Topic Modeling algorithm, identified marketing campaign opportunities and improved 7% of Click-Through Rate
- Collaborated with engineers to cut product's runtime by 85%; partnered with product team and communicated user behavior insights with Tableau reports visualization

CreditX (Fintech Company)

New York, NY

Data Science Student Intern (Credit Risk Monitor, Python, SQL, GCP)

Feb 2020 – *May* 2020

- Reduced loan default risk by 10% from user behaviors by deploying predictive models with Random Forest, XGBoost, and LSTM in Python, monitored Credit Risk in Online-Lending business
- Mined 200K operations data and integrated Natural Language Processing (NLP) techniques to preprocess text data; conducted exploratory data analysis (EDA) in Tableau and data manipulation in SQL for modeling
- Customized Transformer Model to extract 2 new features from alternative data on cloud service (GCP), used by financial analysts to facilitate credit risk analysis process

Deloitte Consulting

Beijing, China

Tech Strategy Intern

Mar 2019 – Jun 2019

- Established a three-level analytical framework, covering company's over 100 business processes
- Conducted 6 case studies and explored value-adds for client based on current needs, developed and presented 45 PowerPoint slides to client during strategy discussion

PROJECT EXPERIENCE

A/B Testing: Adding Free Trial Screener Feature

New York, NY

- Defined evaluation metrics to track new feature impact and invariant metrics for experiment setup sanity check
- Designed experiment and implemented statistical testing with Python, suggested not to launch new feature through test analysis in terms of improving revenue

Machine Learning: Improving Auto Insurance Assigning Strategy

New York, NY

- Created an insurance designation model in Python which boosted 2% increase of expected profit
- Built a two-layer Logistic Regression model using decision factors analyzed from classification models, simulated expected insurance acceptance rates under different policies

Facebook: Interpreting Mathematical Reasoning Abilities of Sequential Models

New York, NY

- Constructed algebra problems solving models in Keras combining mathematical calculation rules
- Evaluated and visualized contribution of each feature to prediction result in LIME, interpreted models' ability to generalize knowledge by understanding internal learning mechanism