Minh Nhat Dang

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EDUCATION

Columbia University, Fu Foundation School of Engineering & Applied Science — **New York, NY**
MS in Data Science — *Expected Dec 2024*

CUNY Baruch College, Zicklin School of Business — **New York, NY**
BBA in Computer Information Systems with College Honors, Minor in Mathematics — *Jul 2020*

TECHNICAL SKILLS & CERTIFICATION

Programming: Python, R, SQL, C++, HTML, CSS, JavaScript, UNIX Shell Scripting
Tools: Oracle/Snowflake, MongoDB, Alteryx, AWS, GCP, Azure, Hadoop, Spark, Tableau/Power BI, MS Office, TensorFlow
Certifications: AWS Certified Machine Learning Specialty (in progress), Professional Scrum Master & Product Owner I

PROFESSIONAL EXPERIENCE

Pegasystems — **New York, NY**
Data Science Intern — *Sep 2023 – Dec 2023*

- Optimized the data pipeline by integrating PySpark, resulting in 50% faster execution time
- Streamlined the process mining logic on insurance companies' screen logs data from ERP/CRM to capture 72% more relevant workflow patterns, and improve the tagging accuracy to more than 93%

Pitney Bowes — **New York, NY**
Data Science Intern — *Jun 2021 – Dec 2021*

- Queried SendTech databases consisting of 100+ schemas on Snowflake by SQL for parcel scan data in various U.S. facilities to provide business stakeholders with data-supported visibility of the Pitney Bowes network
- Developed time-series regression models using backtesting on Python with an accuracy of over 98% to alert of anomalies promptly, resulting in a 10% increase in business revenue
- Proposed AWS services adoption, including Amazon S3, Redshift, EMR (Apache Spark SQL), QuickSight, and SageMaker (Random Cut Forest algorithm)
- Designed a live and interactive Power BI dashboard to visualize and update statistical metrics based on users' inputs

FPT USA Corporation — **Los Angeles, CA**
Machine Learning Intern — *May 2019 – Aug 2019*

- Implemented hand detection and tracking algorithms by Python and GCP via neural networks on Tensorflow with an accuracy of 96%
- Optimized server response time and gesture recognition features by 15% by restructuring models' parameters
- Trained, analyzed, and selected the best dataset and model out of five based on classification metrics, timing, and accuracy

RESEARCH EXPERIENCE, PROJECTS & LEADERSHIP

Heffner Biomedical Imaging Lab, Columbia University — **New York, NY**
Research Assistant — *Jun 2023 – Present*

- Examined and quantifying lung CT scans by Python and deep learning to classify pulmonary emphysema
- Analyzed text and annotated findings from medical images by NLP algorithms to provide better patient diagnosis

Price Sensitivities in European Energy Market | *Data Mining & Predictive Modeling*

- Performed exploratory data analysis and data cleaning, and constructed explanatory variables based on key drivers of client churn
- Built churn models by Python and R to predict customer churn probability, and tested the effect of a 20% discount on likely-to-churn customers
- Prepared an executive summary with insights and recommendations for the division manager and stakeholders

New York City: Weather and Car Accident | *Data Warehousing*

- Designed a data warehouse schema by defining KPIs, dimensions, and fact tables from multiple data sources to show correlations between weather conditions and car accidents in New York City
- Established ETL plans for extracting and loading data into the schema by Alteryx, and populated it in Oracle by SQL
- Created a Tableau dashboard to display and incorporate the statistics and data representations

Ascend – Baruch Chapter — **New York, NY**
Assistant Vice President of Technology — *Sep 2019 – Jun 2020*

- Spearheaded an 8-week HTML/CSS and 10-week Python workshop to introduce programming to 50 members
- Attracted over 80 applicants and converted current members into Ascend's talent pipeline
- Streamlined the technology committee's internal workflow and communication by integrating Trello and Slack

LANGUAGES & INTERESTS

Languages: Vietnamese (native), Mandarin Chinese (intermediate)
Interests: Classical piano music, Tennis, Vietnamese cuisine cooking, Cultural exchange, European soccer