**EDUCATION**

**Northwestern University Evanston, IL, Sep. 2024 – Dec. 2025**

Master of Science in Machine Learning & Data Science

***Main Coursework:*** Machine Learning, Data Mining, Cloud Engineering, Generative AI, Deep Learning, Data Visualization

**University of Illinois Urbana-Champaign Champaign, IL, Aug. 2020 – May 2024**

Bachelor of Science in Statistics & Computer Science (GPA: 3.93/4.00)

***Main Coursework:*** Calculus, Discrete Structures, Data Structures, Statistical Analysis, Statistics and probability

**TECHNICAL SKILLS**

* **Programming:** Java, Python, R, C, C++, SQL, Tableau, Power BI, Data studio
* **Data Science & Statistics:** Machine Learning, NLP, Web-scraping, Geo-coding, chi-square test, AB Testing
* **Libraries & Frameworks:** Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, PyTorch, Scikit-learn

**PROFESSIONAL EXPERIENCE**

**The Home Depot || *Data Analysis Intern* May 2023 – Aug. 2023**

* Designed and implemented interactive dashboards with Tableau to provide insights on key performance metrics including Pre-Product Testing, Post Product Testing, and Certified Product Vendor Performance
* Utilized Python tools like Spyder and Jupyter Notebook to efficiently merge over 50 diverse datasets on a monthly basis, apply fuzzy matching techniques which reduced data discrepancies by 15%
* Utilized SQL to extract and manipulate data from Google Big Query, enhancing efficiency by 30% and ensuring timely and precise reporting in order to evaluate the performance of the supplier which indicated that the overall performances of certified product vendors are better than the uncertified vendors

**Finance Department of Usmart Securities Limited || *Intern* May 2021 – Aug. 2021**

* Verified vouchers and stamp duty, processed massive data of financial income and expenses by Python, automated the data importing process, and conducted ad hoc analysis on the expense.
* Verified over 5,000 vouchers and stamp duty records, collected large-scale financial datasets, and automated the data importing process resulting in a 40% reduction in manual data entry time
* Created a comprehensive dashboard that tracked key cost and expense metrics, leading to a 15% improvement in budgeting accuracy after receiving feedback from business stakeholders
* Work cross-functionally with tech and non-tech teams achieving a 25% improvement in data quality

**Huier Listening Center *|| Intern* Dec. 2020 – Jan. 2021**

* Transitioned the company from manual paper-based client record-keeping to digital database and stored the data in Google Cloud Platform, utilized Excel and Python to streamline and clean a dataset of 25,000 clients, enhancing data accuracy and efficiency by 30%, reducing data loss incidents by over 90%
* Created a website for the management of database on the population characteristics, location, family conditions, etc., helped the company to have a better control over the dataset of the clients

**ACADEMIC ACTIVITIES**

**Post COVID-19 Airbnb Price Prediction || *Research* Jan. 2023 – Apr. 2023**

* Utilized Python geocoding to map and assess the cost of current leases pre- and post-COVID-19 using NYC Airbnb data. Employed Natural Language Processing to scrutinize prevalent Airbnb listings alongside well-known tourist destinations from 2019.
* Techniques involved proximal gradient loss function optimization, random forest, XGBoost, support vector regression (SVR), and NLP to predict Airbnb prices post-COVID-19.

**Intro Computing** **in UIUC || *Teaching Assistant* Aug. 2021 – Nov.2021**

* Meeting with the professor to confirm the teaching contents and tasks for students
* Checked the complement of lab assignments for attendance
* Solved students’ questions about Python coding including the implementation of basic decision tress, using control structures to implement solution to basic algorithm problems, data visualization with pandas

**EXTRA CURRICULUM EXPERIENCE**

**Shenzhen Information Accessibility Research Association || Member Sep. 2017 – Aug. 2020**

* Officiated and provided basketball rule clarifications to over 60 visually impaired athletes before the sports
* Translated association documents into English, enhancing accessibility and understanding for a broader audience
* Provided guidance services to foreign visitors, creating a welcoming environment and facilitating seamless event participation