

VAISHNAVI RAJPUT

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WORK EXPERIENCE

Development Data Analysis Intern

Block Convey

New York, NY

Jun 2023 – Present

- Led a team of 5 in the development of a blockchain-integrated machine learning system, achieving a 10% reduction in data breaches
- Optimized a Deep Learning Forecasting model for brain tumor detection to achieve 93% accuracy
- Generated valuable insights that facilitated sales expansion through comprehensive research and analysis, delving into the strategic convergence of AI/ML and Blockchain within the market

Graduate Assistant

New York University

New York, NY

Oct 2022 – May 2023

- Streamlined the administration of over 300 students in Data Structures and Algorithms and Introduction to Programming courses, by conducting doubt-clearing sessions and exams along with other graduate assistants and professors

Data Science Intern (Virtual)

British Airways

New York, NY

Feb 2023 – Mar 2023

- Enhanced customized marketing strategies by 15%, through the creation of an ETL pipeline using AirFlow and a robust statistical model; Also addressed 4 concern areas by doing sentiment analysis and other NLP techniques

Marketing Analysis Intern

YM Grad

New Delhi, India

Jun 2020 – Dec 2020

- Increased website traffic by 30% throughout the internship by SEO optimization
- Drove a 50% increase in social media engagement through the implementation of strategic posting

PROJECTS

Recommendation System

Apr 2023 - May 2023

- Built a music recommendation system by creating a popularity baseline model and using collaborative filtering methods; improved metrics such as precision, NDCG, and RMSE by 10%
- Conducted benchmarking to compare single-machine and cluster-based execution and reduced model fitting time by 20.6% and accuracy calculation time by 30.1%

Customer Churn Prediction System

Feb 2023 - Mar 2023

- Performed EDA to identify churn drivers; leveraged various statistical methods to construct a churn prediction model with 94% accuracy; and designed a Flask application to enable real-time usage

Mu-GAN: Generating Adversarial Modified Music

Nov 2022 - Dec 2022

- Formulated a DC-GAN extension architecture to generate novel music of 7 genres or modify existing music to a new genre

ETL System Development for Data Warehousing (Capstone)

Aug 2022 - Dec 2022

- Constructed an application and an inventory management system and achieved efficiency by reducing the turnaround time by 12% using 3NF Normalized queries and Query Optimization
- Implemented ETL pipeline to automate data extraction, transformation, and loading in the PostgreSQL data warehouse, reducing data processing time by 50%, and used Tableau for data visualization

SKILLS

Languages: Python, SQL, Java, HTML, CSS, C++

Tools and Databases: AWS, Apache Spark, Hadoop, MapReduce, AirFlow, Tableau, MS Excel, Git, MySQL, SQL, PostgreSQL

Others: Data Modeling, Data Visualization, ETL Pipelining, Data Warehousing

EDUCATION

New York University

Master of Science in Computer Engineering

New York, NY

Sep 2021 - May 2023

Relevant Coursework: Machine Learning, Deep Learning, ML for Cyber Security, Principles of Database Management, Big Data

Dr. A. P. J. Abdul Kalam Technical University

Bachelor of Technology in Electrical and Electronics Engineering

Noida, India

Aug 2016 - Sep 2020