

Janam Patel

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WORK EXPERIENCE

BlackRock

New York City, NY

Data Engineer

Oct. 2022 – Present

- Designed database architecture for unstructured data, improving data efficiency, and accelerated query time by 60%
- Orchestrated big data organization and normalization, optimizing storage and reducing data size by 30% for enhanced memory efficiency
- Enhanced data extraction scripts, utilizing diverse data structures and Python libraries, resulting in a 20% increase in task execution speed. Implemented an efficient error reporting system, reducing downtime by 80% through prompt flagging

WayUp

New York City, NY

Sales and Data Operations Intern

June 2019 – Aug. 2019

- Streamlined the mailing of reports by utilizing Salesforce's proprietary programming language Apex to automate the creation of daily, and quarterly reports
- Entire Salesforce cleanup using Python and Google Sheets resulted in increased team productivity by 15%
- Identified and researched for more than 400+ prospective clients, and leads

PROJECTS

Music Genre Classification

Jan. 2022 – Mar. 2022

- Engineered Convolutional and Artificial Neural Networks on GTZAN dataset to distinguish music genres using MFCC features and spectrograms
- Achieved 92.87% accuracy by breaking down the thirty second audio signals into three second audio signals

Analyze and Predict game outcome for League of Legends

Jan. 2022 – Mar. 2022

- Leveraging PySpark's built-in SQL API and Machine Learning functionality to perform EDA and predict game outcomes
- Utilized Scikit-learn's GridSearch on PySpark dataframe for hyperparameter tuning to accomplish accuracy of 92% for the training dataset

Stock Price Prediction with ML and Sentiment Analysis

June 2021 – Sept. 2021

- Predicted stock price for n numbers of days in future based on stock market metrics and sentiment analysis obtained by using StanfordCoreNLP and NLTK
- Implemented different ML and NLP models for sentiment analysis and price prediction, to achieve 60% accuracy with model returning 0.5% to 4.8% in profit

Building a Song Recommendation and Analyzer System

Jan. 2021 – Mar. 2021

- Collected and analyzed 340K+ songs and Top 100 Billboard's features obtained from Spotify API and Soundiiz using concurrent futures library to speed up the data collection process by 70%
- Engineered a recommendation system using Scikit-Learn's cosine similarity combined with the angular distance

EDUCATION

Drexel University, College of Computing, and Informatics

Philadelphia, PA

Master of Science | Data Science

Sept. 2020 – June 2022

York College, City University of New York

New York City, NY

Bachelor of Science | Computer Science

Aug. 2017 – June 2020

TECHNICAL SKILLS

Programming Languages: Python, SQL, C++, HTML

Database Management Systems: MySQL, NoSQL

Machine Learning: Regression Models, Classification Models, Neural Networks, Deep Learning, Natural language processing

Tools/Libraries: Tensorflow, Keras, PySpark, Scikit-learn, Pandas, NumPy, PyMongo, Salesforce, Gephi, Visual Studio

Language: English, Hindi, and Gujarati