VISHAL BOTHRA

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EDUCATION

Northeastern University, Boston – Master of Science, Data Analytics Engineering *Expected May 2023*
Relevant Coursework: Data Analytics Foundation | Data Management for Analytics | Data Mining | Machine Learning   3.85 GPA

Acropolis Institute of Technology & Research, India – BE, Computer Science *May 2020*
Relevant Coursework: Data Structures & Algorithms | DBMS | Operating Systems

SKILLS

Languages and Frameworks: Python, R, C++, Django, Dash, PyQt5, HTML, CSS
Data Management Languages and Tools: PostgreSQL, SQL, Neo4J, Tableau, Microsoft Excel
Libraries: Keras, NumPy, Pandas, Matplotlib, Plotly, Selenium, JSON, BS4, Scikit-Learn, Boto3, NLTK , Tensorflow
Certifications: Microsoft Certified Database Fundamentals | Industrial Training in AI, ML and Deep Learning | Advanced SQL

EXPERIENCE

Teaching Assistant, Data Management for Analytics, Northeastern University, Boston *Jan 2022 – Present*
- Assisting professor in curriculum planning, grade assignments, discuss and evaluate projects and resolve doubts of students.
- Conducting workshops on MySQL, Neo4J, Database concepts and scope of Data analytics to enhance the learning experience.

Information Technology Services, Northeastern University, Boston *Dec 2021 – Present*
- Provide technical support to 50+ students and faculties, document reports and help in troubleshooting issues on a daily basis.
- Participating in development of technical projects to enhance the technical experience of Northeastern students and faculties.

Freelancer, Upwork, India *Mar 2021 – Aug 2021*
- Collaborated with a team of three to deliver 20+ end to end projects involving data collection using web scraping, automation, utilizing Machine Learning and Statistical-analysis methods with a 100% success rate and 4.7-star client satisfaction rating.

Software Trainee, Quest Global Technologies, India *Feb 2021 – May 2021*
- Contributed to development of a cross-platform desktop application that aims to organize tasks and files on AWS cloud.
- Designed an interactive front-end using PyQt5 and configured AWS S3 bucket to host files and user data on server.

PROJECTS

7Eleven Reliance Merger Database Simulation
- Leveraged database modelling concepts to design and implement SQL and NoSQL database to accommodate 5000+ rows of data pertaining to inventory, supply-chain, cash-flow, billing, employees, and customers of a large retail chain.
- Deployed Python to perform data preprocessing, leveraged MySQL to answer critical business questions and formulate strategies.

Retail Sales Data Set Analysis
- Analyzed US Retail and Food Services Sales data using SQL to understand trends in consumer spending patterns from 1992-2021.
- Utilized indexing time series analysis technique to gather insights about trends and seasonality in spending behaviors and profits.

Walmart Lens
- Scraped 24000+ products from 25+ departments from Walmart with Images to develop a smart shopping interface.
- Created an ETL pipeline and performed data cleaning, preprocessing to eliminate redundancies and skewness in data.
- Designed a CNN model to analyze the Image input to detect and display the product name through a web application interface.

Real-Time Stock Market Data Fetching and Analysis
- Fetched NOPE value associated with any US stock from NOPEchart in real-time using CURL and created a dashboard in Tableau.
- Analyzed the fluctuation with Python in Indian stock market to implement Iron Condor Trade strategy to profit from low volatility.
- Improved the profits from any underlying asset by 40% and reduced the manual inputs by 30 hrs/week.
- Scraped brokers trading data from DayTradeScans to gain insights and facilitate trade calls in Vietnam stock market.

World Happiness Report Data Analysis
- Performed Data Wrangling and EDA on dataset collected for 5 years about country happiness ranks based on various parameters.
- Conducted statistical tests such as t-test to analyze various parameters per year associated with the top-20 happiest countries and applied K-means clustering and deployed Random Forest Regressor model to identify the top 2 important features.

PUBLICATIONS

Conceiving a Sense of AI and Cloud Amalgamation • *Journal of Current Science* • *Credential*
An Enhancement of Selection Sorting Algorithm • *Journal of Applied Information Science* • *Credential*

INTERESTS

Iron Man | Acting | Direction | Photography | Singing | Doodling | Gaming | Teaching Programming Fundamentals