

Divyanshu Bhardwaj

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Education

Master of Science in Information Systems, Data Science (GPA 3.92)

Graduating May 2023

Northeastern University, Boston

Relevant Courses – Deep Learning & Reinforcement, Big Data Analytics and intelligent systems, Data Science Engineering MT

Bachelor of Engineering in Electronics

Jun 2018

University of Mumbai, Mumbai

Relevant Courses – OOPS, Structured Programming Approach

Technical Skills

Languages : Python, R, Java, PL/SQL, PySpark, JSON

Databases : MySQL, Oracle 11g, PostgreSQL, SSMS, Google Cloud Storage, Redshift, S3

Libraries : NumPy, Pandas, scikit-learn, matplotlib, seaborn, OpenCV, sympy, SciPy, TensorFlow, Pytorch

Mathematics : Statistics, A/B testing, Multi-arm Bandit, Bayesian Inference, Markov Chain Monte Carlo

Tools : Tableau, Power BI, Spark, CoLab, JIRA, GIT, Excel (VLOOKUP, Macros), GCP, AWS, SageMaker, EC2, Selenium Webdriver

Experience

Northeastern University, Boston, USA

Graduate Research Assistant- Under Prof Shawn Bhimani

Aug 2022 - Present

- Working on huge text of corpus, released by companies to prevent modern slavery in global supply chain using machine learning
- Carried out text processing and cleaning, extracted topics using Gensim LDA and N-grams; also developing metrics for analysis

Graduate Teaching Assistant (Intro to Statistics and Data Analysis)

Sept 2022 - Present

- Assessed student's learning to determine weaknesses & needs, improved their coding skills through assignments
- Supporting the professor to mentor and manage 30+ students' performance reviews through dashboards

Motorola Solutions, Chicago, USA

Data Scientist Intern

May 2022 - Aug 2022

- Collaborated with cross-functional team to develop a solution by identifying relevant data sources, structuring problems
- Implemented **collaborative filtering** using **Matrix Factorization**, Achieved an RMSE score of **1.58** using ALS technique
- Optimized the algorithm for correlating incidents reducing the manual effort by **40%** for **2M+ records**
- Developed a solution to identify events that can be reduced in FM System, **90M+ events a year**, overall, **11%** reduction
- Extracted required data from MySQL server and created dashboards in tableau to improve the business needs

L&T Infotech (LTI), Mumbai, India

Data Scientist

Jan 2020 - Jun 2021

- Exercised data mining, web scraping on multiple instances and discovered areas that needed manual effort reduction
- Planned, designed, and constructed a python-based automation for clients, **resulting in \$150K cost savings**
- Automated SOX team process, reducing the manual effort of **120 hours a week** and **30% manpower reduction**
- Monitored KPIs and DelEx parameters, interfaced with clients to evaluate business needs & proposed convenient solutions
- Developed a query to extract reports from a database with **2 million rows of data** using python

Software Engineer/SOX Analyst

Aug 2018 - Dec 2019

- Enhanced complex SQL queries to efficiently extract large volumes of data from various sources
- Collaborated with a team of 10 members to implement processes that maintained SOX compliance
- Deployed an auto ticket triaging tool which reduced resource efforts that had to work on 24/7 shift

Technical Projects

Image classifier for the Intracranial Hemorrhage Detection (Keras, TensorFlow, Conv2D)

May 2022 - Jun 2022

- Built a CNN model with RSNA dataset that classifies hemorrhages using 3 convolutional layers & 2 fully connected layers
- Applied MaxPooling, BatchNormalization and Dropout techniques to increase the accuracy on validation data to 89.55 %

Business Meeting Summarization (GCP Cloud Function, Firebase, FastAPI, Airflow, SQL)

Jan 2022 - May 2022

- Orchestrated ETL pipelines and automated video suggestions using Apache Airflow, Established API Endpoints using FastAPI
- Provided the model as a Service & Formulated SQL queries to join from multiple databases and visualize results in Bigquery

Yelp Reviews Topic Modeling: (Python, NLP, spacy, Gensim)

Oct 2021 - Dec 2021

- Implemented sentimental Analysis on Topic Modeling to analyze the difference in positive & negative reviews using LDA algorithm
- Evaluated feature extraction techniques - count and tf-idf vectorizer for optimal sentiment predictions