SHARDUL CHAVAN

Boston, MA | (857) 313-5138 | chavan.sha@northeastern.edu | LinkedIn | https://github.com/shardulchavan

EDUCATION

Northeastern University, Boston, MA

Master of Science in Information Systems GPA: 3.76

Anticipated Graduation Date: April 2024

Relevant Courses: Data Science Engineering Methods and Tools, Database Management & Database Design, Advance Data Science and Architecture

University of Mumbai, India

Bachelor of Engineering in Computer Engineering

June 2022

WORK EXPERIENCE

SERVICEBERRY TECHNOLOGIES PVT. LTD.

Mumbai, India

ServiceNow Developer Trainee - Solutions Department

January 2022 - July 2022

- Implemented cloud-based Platform-as-a-Service (PaaS) named ServiceNow and performed API integration of AI chatbot with GPT-2/3.5, leveraging advanced natural language understanding (NLU) and artificial intelligence
- Designed and implemented a streamlined flow for the virtual agent, encompassing **prompt engineering**, **question answering**, **and intent classification**, effectively segregating and optimizing tasks for enhanced performance and user experience
- Prepared technical written documentation, outlining implementation processes to ensure clear and detailed reference materials

AI BI STREET PVT. LTD.

Mumbai, India

Data Analyst Intern

February 2021 - June 2021

- Collaborated with team to build deep learning models (Pandas, Tensorflow, Keras, Convolutional Neural Network) using the Transferability Prediction Difference method to recognize and mitigate adversarial examples
- Conducted model training on large-scale image datasets, employing hyperparameter tuning to enhance model performance
- Advocated use of MNIST and Cifar 10 datasets (60000 images each) and validated them with cross functional teams to evaluate metrics, achieving 91% accuracy on adversarial test cases

Python Developer Intern

December 2019 - February 2020

- Researched Particle Swarm Optimization computer science technique, applied to optimize parameters influencing dam stability
- Integrated 4 stochastic optimization algorithms into Django web interface application to determine parameters ensuring dam status
- Evaluated statistics and demonstrated communication and presentation skills to support strategy-making for stakeholders

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, Javascript, C, Java, HTML, CSS **MySQL**, Microsoft SQL Server, Oracle, SQLite

Development Tools: Microsoft Office, Azure, AWS, PowerBI, Jupyter Notebook, Google Colab, GitHub, ServiceNow Regression, Clustering, Decision Trees, Supervised/Unsupervised Learning, Reinforcement Learning PyTorch, Pandas, NumPy, Matplotlib, TensorFlow, spaCy, NLTK, Keras, Scikit-Learn, Seaborn

ACADEMIC PROJECTS

EXPLORATORY DATA ANALYSIS ON TIME SERIES DATA

March 2023 - April 2023

- Designed and executed Machine Learning pipeline to extract temperature, region and time data, transformed it into structured format by performing **data cleaning and preprocessing**, further performed statistical modelling for time-series analysis
- Conducted trend, seasonal, and autocorrelation analysis on monthly average temperature data to study climate change
- Utilized various autoregressive ML models (ARIMA, SARIMA) and developed proficiency in time-series analysis

CAUSAL INFERENCE FOR MARKETING

March 2023 - April 2023

- Designed and executed ETL (Extract, Transform, Load) pipeline to extract customer behavior and sales data from CSV files, transformed it into structured format by performing data cleaning and preprocessing, further loaded it into a database
- Motivated team and took collaborative effort to compile statistical techniques such as **GraphML**, **regression analysis**, **and hypothesis testing** to analyze relationships between variables, identify causal effects, and understand relationships within data

AMAZON REVIEW SENTIMENT ANALYSIS

November 2022 - December 2022

- Demonstrated data scraping of 5000 reviews of Amazon product using **Python (Jupyter Notebook, Beautiful Soup)**, leveraged quantitative analysis to identify key features and insights from customer feedbacks enabling comprehensive data driven analysis
- Implemented robust Natural language processing (NLP) pipeline to preprocess and analyze text (TF-IDF, Count Vectorization)
- Trained Multinomial Naive Bayes and Bernoulli Naive Bayes models, attained high classification accuracies of 90% and 85%