Vishwa Shrirame

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Education

Indiana University - Bloomington   Aug 2021 – May 2023
Master of Science in Data Science   **4.0 GPA**
Coursework - Exploratory Data Analysis, Applied Database Technologies, Machine Learning for Signal Processing

University of Mumbai, India   Aug 2016 – Oct 2020
Bachelors of Engineering in Information Technology   **3.7 GPA**
Coursework - Data Mining, Advanced Algorithms, Database Systems, Artificial Intelligence, Big Data Analytics

Technical Skills

Languages (R, Python, Java, SQL), **Databases** (MySQL, MongoDB),
Frameworks/Technologies (Git, Tableau, Docker, Flask, Django, Selenium),
Libraries (numpy, pandas, scikit-learn, matplotlib, seaborn, ggplot2),
Data Science (A/B Testing, Data Mining, Classification & Regression modeling, Clustering, Tree-based modeling)

Professional Experience

Indiana University - Bloomington, USA   Jan 2022 – present
Associate Instructor, Applied Machine Learning
- Designing assignments that cover concepts of machine learning pipelines and techniques used with real-world data.
- Conducting weekly sessions that help students understand and implement concepts in a hands-on way.
- Built a Docker container with the latest versions of machine learning libraries & frameworks that ensure students stay up to date with the course repository.

Accenture Solutions Private Limited, Mumbai, India   Jan 2021 – Jul 2021
Associate Software Engineer
- Created automation scripts using the Protractor framework for testing the functionality of the client website that identified existing defects and improved user experience.
- Optimized testing workflow of the project thereby reducing testing time by 40%.
- Collaborated with business analysts to construct user stories that helped in the setup of project tasks.

Capgemini Technology Services India Limited, Navi Mumbai, India   Jun 2018 – Jul 2018
Software Developer Intern
- Developed Microsoft O-Auth on the client mobile application using Xamarin Forms and pushed to master branch.
- Studied how Micro-services are created using the Spring Boot framework and passed the company's skill test.

Projects

Home Credit Default Risk ⬀   Sep 2021 – Dec 2021
- Developed a classification model to predict whether a loan borrower will repay a loan or not that would help financial institutions with their decision making
- Performed **feature engineering** that identified new financial aspects towards understanding of loan applications.
- Developed an **Artificial Neural Network** using **Pytorch** to further improve the model performance and analyzed the results on **TensorBoard**.

Stock Price Predictor ⬀   Jun 2020 – Aug 2020
- Developed **LSTM model** that predicted the stock prices for the year 2020 till date that would aid in the technical analysis of the stock-selection process.
- Visualized the trends of the predicted and the actual stock prices of the 10 top-performing stocks in India and deployed them on a website using Flask.

Consumer Behavior Analytics ⬀   Dec 2019 – May 2020
- Analyzed the consumer behavior on e-commerce sites that help organizations with their marketing strategies.
- Performed **sentiment analysis** on customer reviews by leveraging different classification algorithms and achieved the best accuracy of **93%** using Naive Bayes algorithm.
- Developed **BERT classifier** for sentiment analysis that understood the context behind customer reviews and improved the accuracy to **96.86%**.
- Built a **recommendation system** using collaborative filtering to provide a personalized shopping experience to users.
- **Published** a research paper ⬀ in **IEEE Xplore** and presented it at an **IEEE conference**.