SHAIVAL SHAH

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EDUCATION

Northeastern University, Boston, MA — Sep 2021 - Present
Master of Science in Data Science | GPA: 4.0/4.0 — Expected May 2023
Related Courses: Supervised Machine Learning, Data Management and Processing, Unsupervised Machine Learning & Data Mining, Deep Learning

Nirma University, Ahmedabad, India — Jul 2016 – Jul 2020
Bachelor of Technology in Computer Engineering | GPA: 8.2/10.0
Related Courses: Machine Learning, Deep Learning, Algorithms, Probability & Statistics, Intro to A.I

TECHNICAL SKILLS

Languages: Python, R, Java, C, SQL, Golang, JavaScript, HTML, CSS, D3.js
Machine Learning Libraries: PyTorch, Keras, Tensorflow, Numpy, Scipy, Sci-kit learn, Seaborn, Matplotlib, OpenCV
Tools & Technologies: Excel, Word, Powerpoint, RStudio, MySQL Workbench, Tableau, Eclipse, Terraform, Puppet, Jenkins, Thruk, StreamLit, MLFlow, AWS, Git, Jira, Confluence, Bitbucket
Certifications: Machine Learning from Stanford University, Deep Learning Specialization from deeplearning.ai, Python Bootcamp(Udemy)

PROFESSIONAL EXPERIENCE

KHOURY COLLEGE OF COMPUTER SCIENCES, Boston, MA — Sep 2021 - Present
Graduate Teaching Assistant

- Working as a Teaching assistant for DS-4200 Information Presentation and Visualization that coves topics like data abstraction, visual encodings, programming in Python, Tableau, Excel etc.
- Managing a class of 40 students with tasks ranging from solving their doubts, grading assignments, and conducting office hours.

CREST DATA SYSTEMS PVT. LTD., Gujarat, India — Jan 2020 - Jul 2021
Software Development Intern/Site Reliability Engineer

- Developed Terraform Providers for Cisco ACI, Constellix, and Cisco MSO as a part of the DevOps team
- Played an active part of the Splunk CloudOps project wherein,managed infrastructure on AWS,GCP leveraging Terraform, Puppet and Thruk

INSTITUTE OF TECHNOLOGY, NIRMA UNIVERSITY, Gujarat, India — May 2019 - Jul 2019
Big Data Analytics Research Trainee

- Came across NoSQL databases; Cassandra, MongoDB, Neo4j, and studied how to work with unstructured data
- Researched about Apache Hadoop, Spark, Kafka and implemented a project on sentiment analysis using Twitter API data

ACADEMIC PROJECTS

CUSTOMER CHURN PREDICTION — Sep 2021 - Dec 2021
Northeastern University, Boston, MA

- Implemented 8 ML Models for classification task of Customer Churn, including Logistic Regression, SVMs, Decision Trees, Random Forest, KNN, Neural Networks, and Voting Classifier
- Employed MLFlow to track hyperparameters and log metrics of each model and hosted model on StreamLit

ONLINE SHOPPERS' PURCHASING INTENTION PREDICTION — Sep 2021 - Dec 2021
Northeastern University, Boston, MA

- Predicted purchasing intention of a visitor using aggregated pageview data kept track during visit to an e-commerce site
- Implemented ML Models for classification task including SVMs, Decision Trees, Random Forest, GradientBoost, XGBoost and Voting Classifier

STOCK MARKET PREDICTION USING DEEP LEARNING TECHNIQUES — Oct 2019 - Dec 2019
Nirma University, Gujarat, India

- Performed intensive research on deep learning models; CNN, RNN, and LSTM and implemented a basic RNN, GRU, and LSTM cell to predict future stock prices of Yahoo and Google

TWITTER SENTIMENT ANALYSIS AND BEST TEAM FORMATION — May 2019 - Jul 2019
Nirma University, Gujarat, India

- Performed a sentiment analysis to bring about a positive, negative, or neutral emotion for every player out of the tweets imported via Twitter API from the FIFA twitter handle. Implemented a prediction algorithm using linear regression and support vector regression for non-linear data based on the ratings of different players of different features to form the best eleven of a particular formation in football.

HEALTHCARE DATASET ANALYSIS USING PYSPARK — Jul 2019 - Jul 2019
Nirma University, Gujarat, India

- The probability of having a stroke was predicted by executing decision tree algorithm on an imbalanced dataset from Kaggle. The imbalance was removed by writing SQL queries and cleaning and pre-processing by pyspark.

PUBLICATIONS

Big Data Analysis in Urban Planning. International Journal of Engineering Research and Technology (IJERT) ISSN:2278- 018, Vol.8 Issue 10, October 2019

Big Data Analysis on Stock Market Prediction. International Journal of Engineering Research and Technology (IJERT) ISSN:2278-018, Vol.8 Issue 10, October 2019