

SHIVANG ARYA

Shivang.Arya@utexas.edu

github.com/NotShivang • shivangarya.com • linkedin.com/in/shivangarya • (737) 484-6959

EDUCATION

The University of Texas at Austin	Master of Science in Information Technology and Management Overall GPA: 3.88/4	May 2020
Narsee Monjee Institute of Management Studies, Mumbai	Master of Business Administration in Technology Management Bachelor of Technology in Computer Engineering	May 2019

TECHNICAL SKILLS

- **Data Science:** Statistical Methods, Predictive Modeling, Dimensionality Reduction, Machine Learning, Natural Language Processing, Recommender Systems, Neural Networks (using CUDA/GPU cores), Artificial Intelligence
- **Data Engineering:** Data ETL (Extraction, Transformation and Loading), Spark, PL/SQL, SQL Dashboards, Data Pipelines, HDFS (Hadoop Distributed File System), Map Reduce
- **Programming Languages:** C/C++, Java, Visual Basic (MS Excel macros), MATLAB, R/RStudio, Python, SAS, Kotlin (Android)
- **Web Technologies:** HTML, CSS, JavaScript, PHP, Flask
- **Cloud Computing:** Amazon Web Services, Google Cloud Platform, Microsoft Azure

EXPERIENCE

- Dell Technologies Inc. – Research Scientist, Capstone Project;** Austin, Texas Jan 2020 – May 2020
- Implemented an imputation model for time series data based on deep convolutional generative adversarial networks.
 - Achieved 98% cosine similarity on average when comparing synthetic data from the algorithm with real values.
 - Created a Docker application to deploy this solution.

- HDFC Capital Advisors Limited – Management Trainee, Investments;** New Delhi, India May 2018 – Sep 2018
- Calculated an average rate of return of about 16%, with the help of market analysis and financial modeling, on private equity and debt investments in real estate projects worth over \$25M.

- Nokia Networks Private Limited – Technical Intern, Router Configuration;** Mumbai, India May 2017 – Jul 2017
- Remote router configuration and troubleshooting to maintain connectivity within mobile networks as well as reduce downtime.

- Bharti Airtel Limited – Intern, Information Technology Department;** Gurgaon, India Jun 2016 – Jul 2016
- Developed an automated system for formatting and uploading data dumps, increasing efficiency of the process by 67%.

APPLICATION DEVELOPMENT PROJECTS

- **Emerging Technologies (IoT):** Programmed a raspberry pi to receive step count from a microbit and weather data from an android application. This data is used to tune a machine learning model to obtain daily goals which are displayed on the application.
- **Advanced Programming and App Development – Event Management System:** Android application and a website to create, join, modify, and delete events with different admin and user functionalities.
- **Data Management – PointsGiving:** A webapp designed to implement a monthly points-based reward system along with admin functionalities such as dashboards to generate reports that summarize all the activity and giving out bonus rewards.

DATA ANALYTICS PROJECTS

- **Business Data Science – FIFA Manager:** Finding the optimal replacement for a football (soccer) club's outgoing player using similarity scores and recommender systems. Moreover, suggesting the best playing 11 given a budget and a formation.
- **User Generated Content Analytics – YouTube Clickbait:** Topic modeling and sentiment analysis on over 2500 YouTube thumbnails and titles to predict if the video will go viral. Found that a thumbnail depicting travel and having a negative title increases engagement by 20%.
- **Marketing Analytics:** Finding the customer lifetime value, time series forecast for sales using Winters' method and an optimum marketing budget allocation strategy for Olist e-commerce website.
- **Big Data and Distributed Programming:** Music recommendation system using Spark based on a user's song history and cosine similarity with other users; Movie recommendation system using item based and user based collaborative filtering.

ADDITIONAL INFORMATION

Publication: Does 'Femvertising' matter? A study in the Indian context – *International Journal of Research and Analytical Reviews*
Interests: Chess and Football (soccer)