

# SHIVANG ARYA

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## EDUCATION

<b>The University of Texas at Austin</b>	Master of Science in Information Technology and Management Overall GPA: 3.88/4	May 2020
<b>Narsee Monjee Institute of Management Studies, Mumbai</b>	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, A/B Testing
- **Data Engineering:** Data ETL (Extraction, Transformation and Loading), Spark, PL/SQL, Dashboards (SQL and Tableau), 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

<b>Dell Technologies Inc.</b> – <i>Research Scientist, Capstone Project</i> ; Austin, Texas	Jan 2020 – May 2020
<ul style="list-style-type: none"><li>▪ Implemented an imputation model for time series data based on deep convolutional generative adversarial networks.</li><li>▪ Achieved 98% cosine similarity on average when comparing synthetic data from the algorithm with real values.</li><li>▪ Created a Docker application to deploy this solution.</li></ul>	
<b>HDFC Capital Advisors Limited</b> – <i>Management Trainee, Investments</i> ; New Delhi, India	May 2018 – Sep 2018
<ul style="list-style-type: none"><li>▪ 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.</li></ul>	
<b>Nokia Networks Private Limited</b> – <i>Technical Intern, Router Configuration</i> ; Mumbai, India	May 2017 – Jul 2017
<ul style="list-style-type: none"><li>▪ Remote router configuration and troubleshooting to maintain connectivity within mobile networks as well as reduce downtime.</li></ul>	
<b>Bharti Airtel Limited</b> – <i>Intern, Information Technology Department</i> ; Gurgaon, India	Jun 2016 – Jul 2016
<ul style="list-style-type: none"><li>▪ Developed an automated system for formatting and uploading data dumps, increasing efficiency of the process by 67%.</li></ul>	

## 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%.
- **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.
- **Personal Website – [shivangarya.com](http://shivangarya.com):** My personal website hosted on Github pages and made using a combination of Jekyll, HTML, CSS, and JavaScript.
- **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.
- **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.

## ADDITIONAL INFORMATION

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