Shruti Belgali

📇 9 July, 1998

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Education

M.S. Computer Science
Georgia Institute of Technology | 2022-Present

Bachelor of Engineering, Information Tehnology
Sardar Patel Institute of Technology| 2016-2020 | CGPA:9.3/10

HSC
Thakur Vidya Mandir Junior College | 2016 | 90.4 %

Skills

Machine Learning: Python, matlab
Web Development : HTML, CSS, JavaScript
Database: SQL
Languages: Java, C, Python

Certifications

EDHEC Business School
Introduction to Portfolio Construction and Analysis with Python
Stanford University
Machine Learning
deeplearning.ai
- Neural Networks and Deep Learning
- Improving Deep Neural Networks
- Structuring Machine Learning Projects
SCOPE course
- Data Visualization using Tableau and Excel

Achievements

Smart India Hackathon | 2019
Got selected for the finale of Smart India Hackathon 2019

Indian Judiciary System Competition | 2018
Won the competition by showing good presentation skills

Work Experience

MSCI | Analyst | July 2020 - June 2022

Testing on financial instruments
- Gained a better understanding of financial instruments and tested them on various Performance Attribution and Risk Attribution formulae.

ADO pipelines for regression
- Created and modified ADO pipelines using templates to automate regression.

MSCI | Technical Intern | Jan 2020 - Jun 2020

Identifying regimes to predict market movements
- Researching the efficacy of using the Hidden Markov Model and Deep Learning models to identify regimes in the financial market data.

MSCI index rotation package
- Implemented index rotation strategy over various factors.
- Calculated stats like information coefficient, sharpe ratio to evaluate the strategy.

HFI Intel Calculator
- Implemented HFI calculator to compare the performance of Hedge Fund and ACWI index performance.

Projects

August '22 — Continual learning with structurally modular neural networks
- Understand the effect of structurally modularity in ANNs as compared to standard ANN structure.
- Increase / induce modularity into the standard ANN by dropping edges and grouping hidden units with similar outgoing connectivity patterns.

June '19 — Infraction Detection using YOLOv3
- Automated the process of detecting Personal Protection Equipment(PPE).
- Compared performance of different models like CNN, R-CNN before implementing the system using YOLOv3 model and testing it out on real time video footage.

Apr '19 — Credit Suisse Market Sentiment Indices
- Premised on the idea of analyzing sentiments to collate insights about stock performance.
- Generated sentiment scores for a particular company, country etc. based on tweets and financial data from the websites.
- Used an array of data processing techniques like tf-idf, custom tagger and applying the LSTM neural network to classify the data into sentiments.

Mar '19 — TigerAuth (Biometric Based Authentication System) (for SIH 2019)
- Worked on replacing conventional password based login with biometric authentication.
- Implemented face recognition, liveness detection using opencv and dlib libraries and speaker recognition using mfcc and GMM.

Dec '18 — Portal For Higher Secondary Students
- Created a chatbot which also serves as a doubt solver for higher secondary students.
- Used algorithms like tf-idf, custom tagger and pagerank for intent identification and summarisation.
- Used sentiment analysis for monitoring students' emotions.