Flipr Hackathon 5.0

Machine Learning

Hackathon Problem Statement

Stock market prediction is the act of trying to determine the future value of a company stock or other financial instrument traded on an exchange. The successful prediction of a stock's future price could yield significant profit. The efficient-market hypothesis suggests that stock prices reflect all currently available information and any price changes that are not based on newly revealed information thus are inherently unpredictable. Others disagree and those with this viewpoint possess myriad methods and technologies which purportedly allow them to gain future price information.

Ever since COVID 19 strike, markets loom under fear as uncertainty prevails. lt has sent markets around the world crashing to levels not witnessed since the Global Financial Crisis of 2008. Following the strong correlation with the trends and indices of the global market as BSE Sensex and Nifty 50 fell by 38 per cent.

The challenge of the stock price forecast is the most crucial component for companies and equity traders to predict future revenues. A successful and accurate prediction to the future stock prices ultimately results in profit maximization.

Detailed Report Card

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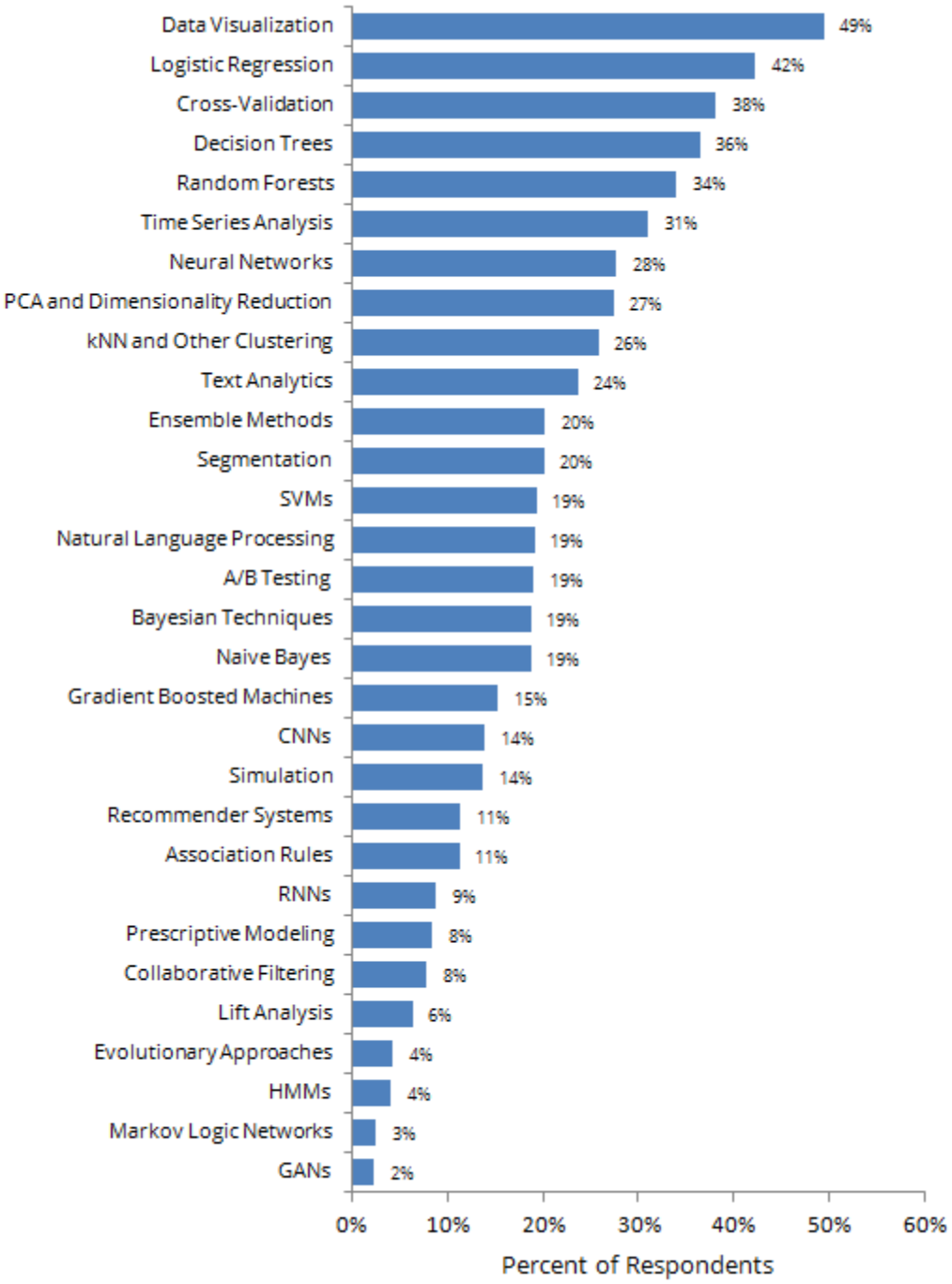
Prediction Algorithm
Rating: A+ Remarks: Well researched and optimized choice of algorithm

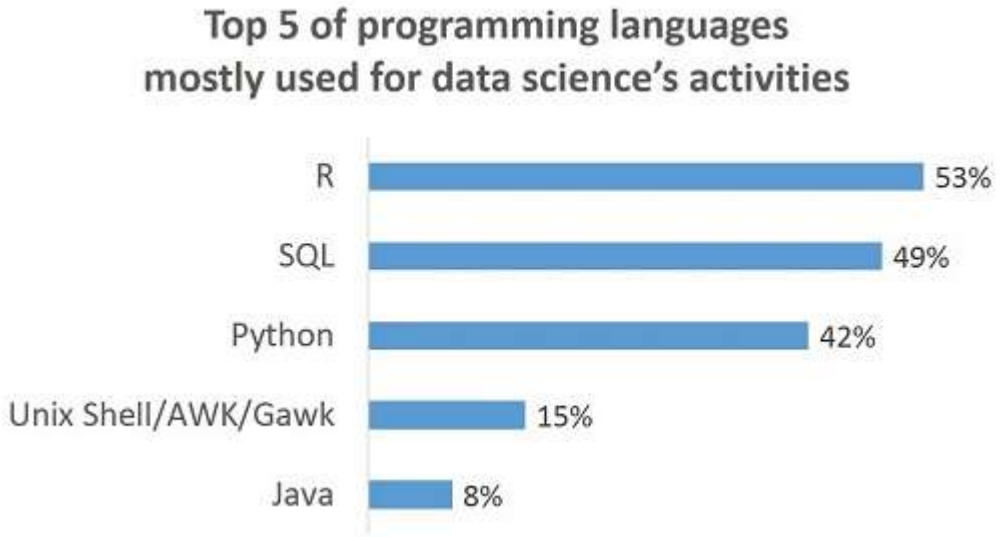
Time-series Algorithm
Rating: A+ Remarks: Well researched and optimized choice of algorithm

Overall Accuracy
Rating: A+ Remarks: Optimum accuracy

Data Science Algorithms at work



ML Programming Languages



Top Python packages for Machine Learning

ML for beginners

ML Books

1. Machine Learning For Absolute Beginners by Oliver Theobald
2. Machine Learning (in Python and R) by John Paul Mueller
3. Machine Learning for Hackers by Drew Conway & John Myles
4. Basic Econometrics by Damodar N. Gujarati

ML Competitions

1. Flipr Hackathons : https://flipr.ai/hackathon/
2. Kaggle Competitions : https://www.kaggle.com/competitions
3. Driven Data : https://www.drivendata.org/

ML Websites to learn

1. Edx : https://www.edx.org/
2. Coursera : https://www.coursera.org/
3. Udemy : https://www.udemy.com/
4. Upgrad : https://www.upgrad.com/
5. Youtube Tutorials : https://www.youtube.com/watch?v=9f-GarcDY58