



AMRITA
VISHWA VIDYAPEETHAM
DEEMED TO BE UNIVERSITY

STOCK ANALYSIS

“

JISHNU P : CB.EN.P2AID19017
HIMESH : CB.EN.P2AID190
JAIVIK DAVE: CB.EN.P2AID190

”

CONTENTS

- Introduction
- Objective
- Dataset
- Dataset Description
- Code Implementation
- Steps Involved

INTRODUCTION

- The **stock market** is where investors connect to buy and sell investments most commonly, **stocks**, which are shares of ownership in a public company.
- **Stock analysis** can be used to gain an insight in to the economy as a whole, the **stock** market, a specific sector or an individual **stock**.
- With help of stock analysis, it is possible to identify the companies which are suitable for investment and to sell the stocks before the company's stock price goes down.

OBJECTIVE

- To predict closing price of a company from the available listing dataset using Spark.
- Suggest whether to Buy or Sell stocks of companies

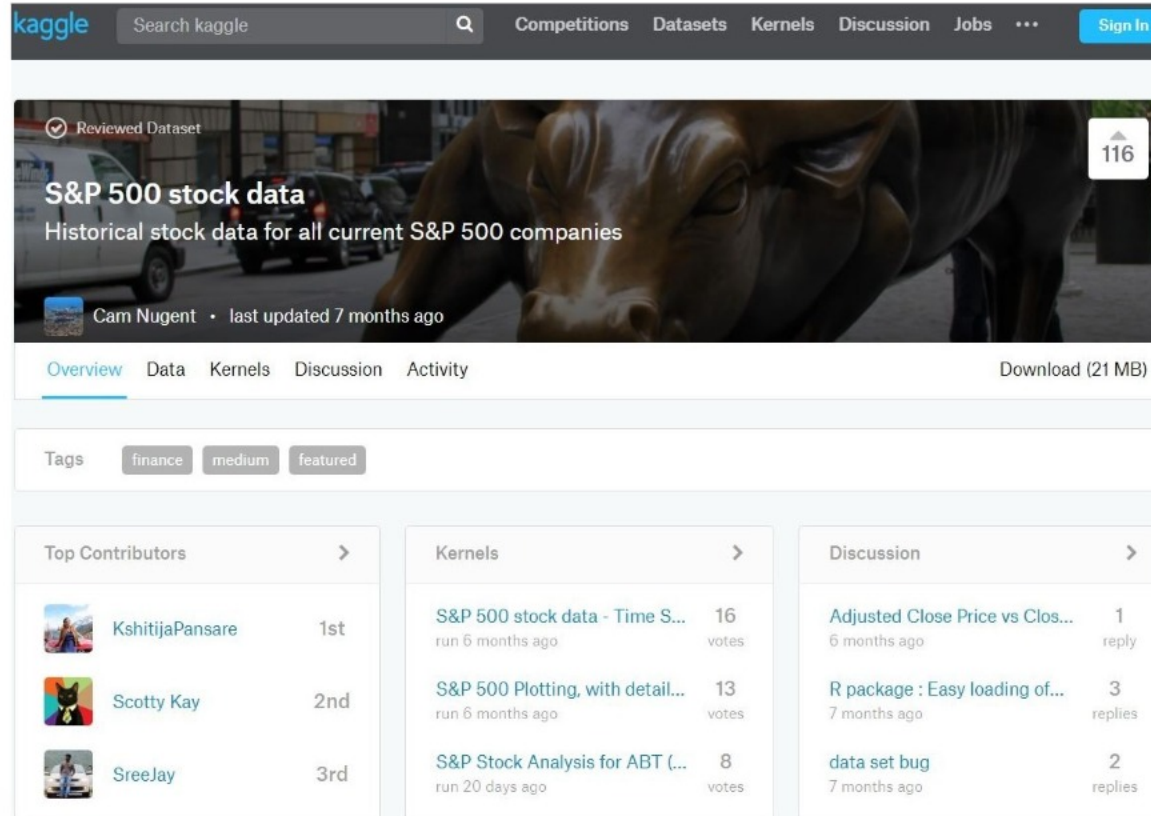


STEPS INVOLVED

- Data Collection
- Data Pre-Processing
- Features and Targets
- Time Series Regression
- Prediction of Target Variable
- Plotting
- Classification

DATASET

- The dataset we used was collected from the kaggle website and it is the data from NSE india.(National Stock Exchange of India)



S&P 500 stock data
Historical stock data for all current S&P 500 companies

Cam Nugent • last updated 7 months ago

Overview Data Kernels Discussion Activity Download (21 MB)

Tags: finance medium featured

Top Contributors

Contributor	Rank
KshitijaPansare	1st
Scotty Kay	2nd
SreeJay	3rd

Kernels

Kernel Title	Votes
S&P 500 stock data - Time S...	16
S&P 500 Plotting, with detail...	13
S&P Stock Analysis for ABT (...)	8

Discussion

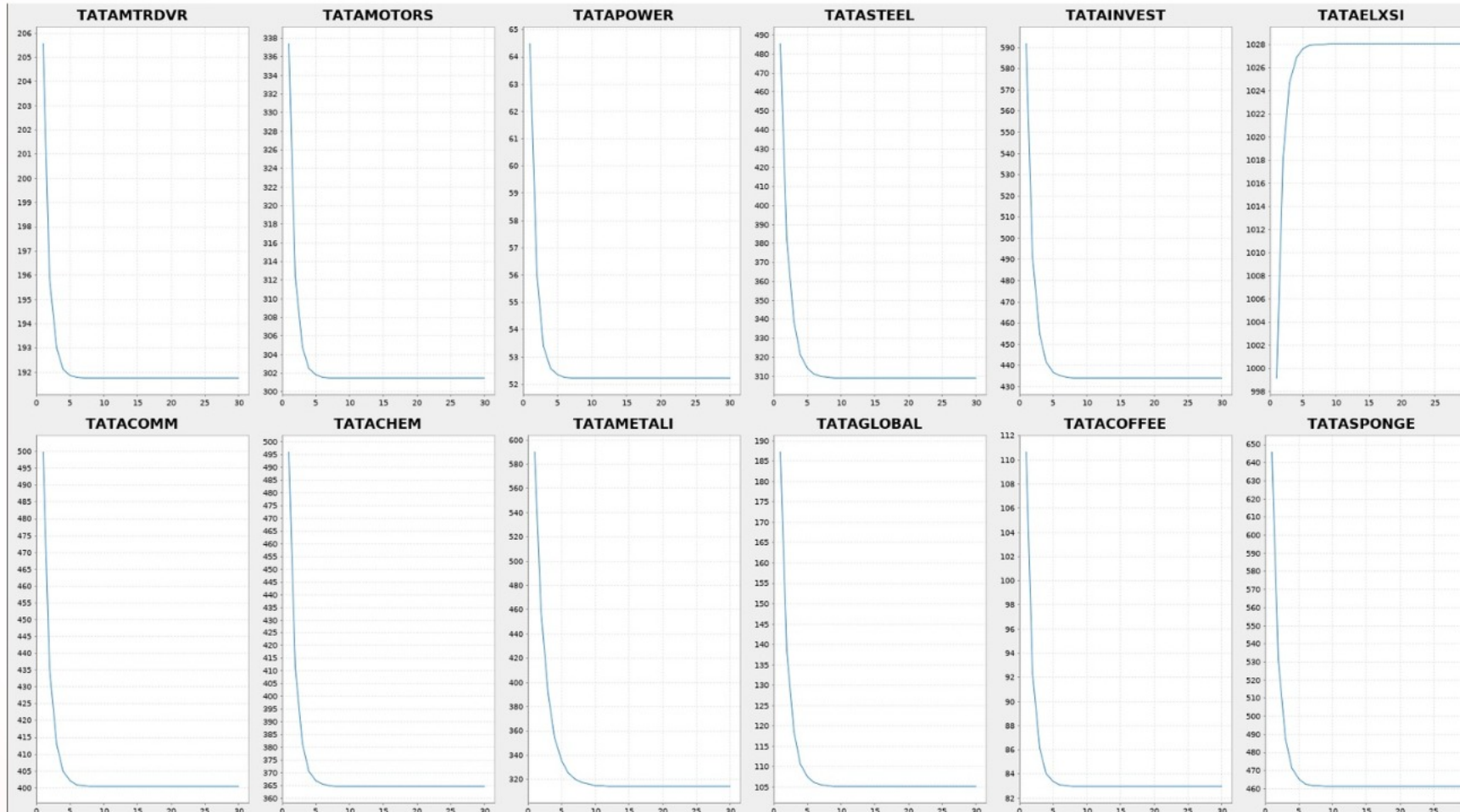
Discussion Title	Replies
Adjusted Close Price vs Clos...	1
R package : Easy loading of...	3
data set bug	2

DATASET DESCRIPTION

- Dataset characteristics : Time series data
- Attribute type : String, Date, Double
- Missing values: 0
- File Format : .csv
- Number of rows: 5950
- Number of companies : 12

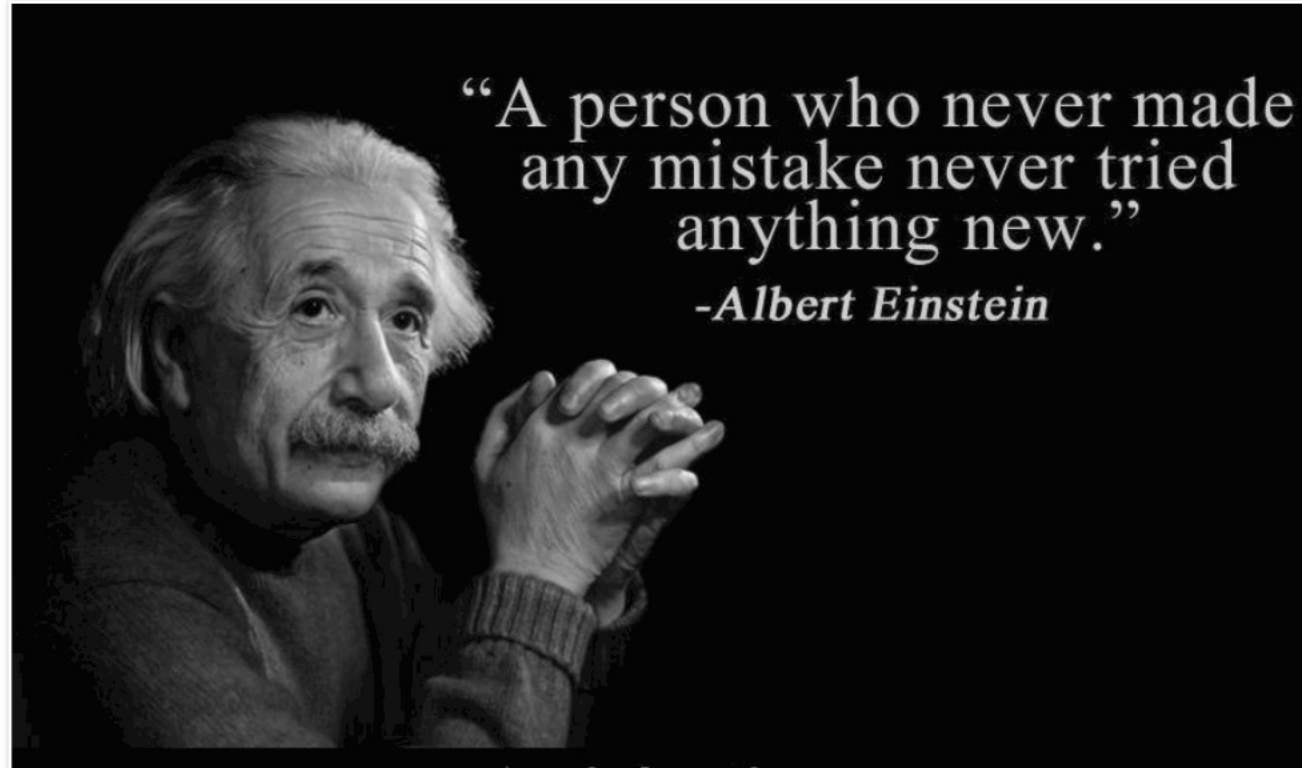
SYMBOL	SERIES	OPEN	HIGH	LOW	CLOSE	LAST	PREVCLOSE	TOTTRDQTY	TOTTRDVAL	TIMESTAMP	TOTALTRADES	ISIN
20MICRONS	EQ	37.8	37.8	36.15	36.85	37.4	37.05	27130	994657.9	2017-06-28	202	INE144J01027
3IINFOTECH	EQ	4.1	4.85	4	4.55	4.65	4.05	20157058	92148517.65	2017-06-28	7353	INE748C01020
3MINDIA	EQ	13425.15	13469.55	12920	13266.7	13300	13460.55	2290	30304923.35	2017-06-28	748	INE470A01017
63MOONS	EQ	61	61.9	60.35	61	61.1	60.65	27701	1689421	2017-06-28	437	INE111B01023
8KMILES	EQ	546.1	548	535	537.45	535.2	547.45	79722	43208620.05	2017-06-28	1866	INE650K01021
A2ZINFRA	EQ	41.3	43	41.25	42	41.9	41.5	606403	25531181.75	2017-06-28	3418	INE619I01012
AARTIDRUGS	EQ	539.9	539.9	520	521.85	522.2	536.55	8560	4508881.6	2017-06-28	569	INE767A01016
AARTIIND	EQ	890.95	894.9	876.9	891.3	890	890	39201	34825375.6	2017-06-28	2778	INE769A01020
AARVEEDEN	EQ	58.2	61.2	57	59.5	59.8	58.85	14401	855816.85	2017-06-28	223	INE273D01019
ABAN	EQ	183	184.65	180.8	182.1	181.9	182.65	447698	81789443.55	2017-06-28	5449	INE421A01028

PLOTS...



FURTHER WORK

- Classifying stock values to High or Low and suggest whether to buy it or sell it.
- Real-Time processing using Spark Cluster
- Finding the profitable stocks within a time span.
- Making End-to-End model
- User Interface



THANK YOU !