CHAPTER 2

LITERATURE REVIEW

**2.1 Introduction**

Portfolio optimization as an area of study has got lot of directed research over the decades.

Given the utility and commercial viability of portfolio optimization there has been renewed and continued research through cutting edge tools, techniques.

Treatment of portfolio optimization from Mean Variance optimization(MVO) approach which logically divided the problem into two parts viz. 1.Empirical Observation of past performance 2.Belief about the future performance and optimal choice in that respect.(Markowitz, 1952).

This approach illustrated relation between “Expected returns and variance of returns” culminating into the concept of “Efficient Frontier” to give a desired combination of Expectation of return and Variance.(Markowitz, 1952).

The approach leads to concentration of weights in few stocks that leads to high risk in investment.This lack of risk diversification is frought with failures during occurance of extreme events like market falls.(Min *et al.*, 2021).For stocks with sparse historical data estimation mean and variance of stocks could have high errors resulting in high risk.(Jobson and Korkie, 1980).For large sample size the computational complexity increases with temporal overhead.MVO approach discourages portfolio selection with increase in returns or variance.(Weng *et al.*, 2020).Markowitz’s modern portfolio theory makes assumptions which are breached in real time like market being perfect without Short sales or shares can be divided into fractions exempted from taxes and transaction costs.(Simos, Mourtas and Katsikis, 2021).MVO model is also criticised due to absence of real word scenarios like boundary and cardinality constraints.(Kalayci, Polat and Akbay, 2020).

Above limitation, needs of changing times coupled with exponential growth in computational power have led many approaches that have solved the problem of portfolio optimization in a much better manner.

**2.2 Developments in portfolio optimization techniques.**

Developments in portfolio optimization techniques can be studied through two dimensional framework one focussing on the Problem and other on Methodology.(Doering *et al.*, 2019)

Problem specific developments relate to more real, accurate problem formulation, diversified definition of risk,use of hybrid simulations coupled with machine learning.

Additional constraints are added the problem and objectives.(Doering *et al.*, 2019)

On the other hand methodology specific developments concentrate on improving computational times and methodological complexity,computational time increase exponentially when the problem solving becomes multi-objective.These focus on meta-heuristic approaches, increasing computational capability through better hardware support,distributed and parallel computing.Methodological complexity related development focuses on lacunae of population based metahueirstics by proposing single point metahueristic approaches.Hybridiation of methods is an important trend which can be further analysed given its richness and diversity.(Doering *et al.*, 2019)

One other important classification for analysing developments that requires mention on the trading strategy side is passive and active trading strategy depending on the investor behaviour of replicating the index or trying to actively beat it.(Shi *et al.*, 2022).More efforts have been made on beating the market through active trading strategies.

The number of such development and strategies is vast enough to be beyond the scope of discussion in this paper.Certain techniques have been discussed following text to enrich the perspective on this area.

**2.2.1 Traditional Machine learning based Methods**

Machine learning based methods have proved useful overtime to solve multi-dimensional prediction problems.Stock data contain time series data in various forms like stock open/close price,volume,return,volatility.(Enke and Thawornwong, 2005).Stock price movement over the temporal dimension provide necessary features required to train machine learning models. Variables like technical indicators,financial variables and macro-economic variables are considered the most important variables.(Tsai and Hsiao, 2010).However over the years the exponential growth in social media and web based content site has been found to be an important influencer of stock market.(Li *et al.*, 2020).The search more data new data influencer is an on-going one.

Ensemble models like Adaptive Boosting(Adaboost), Gradient boosted decision trees(GBDT) and Extreme Gradient boosted tress(XGBoost)(Chen *et al.*, 2021) are both as for classification and regression problem solving.

The scheme of use includes use of these models as binary classifiers to predict direction of market.Experiments have resulted in higher returns than market.(Nobre and Neves, 2019).Use of Extreme Gradient Boosted trees to classify stock trend.(Dey *et al.*, 2016).XGboost model has predominantly been used for classification some experiments have also used XGBoost as regression in stock price forcasting.(Chen *et al.*, 2021).In this study XGBoost model’s hyperparameters are optimised using a meta-heuristic algorithm called firefly.The resulting model is a hybrid model namely IFAXGBoost.(Chen *et al.*, 2021)

Another Tree based ensemble model Random forest has been used to predict the stock price direction.Using technical indicators like relative strength indicator(RSI),stochastic oscillator to predict increase or decrease in price of stock after ‘n’ days.Being a classification problem metric like precision and recall has been used.(Khaidem, Saha and Dey, 2016)

Another study that add more classes to vanilla binary classification problem was conducted by

Lohrmann and Luukka,random forest model was used on S&P500 for predicting intraday returns.The four classes were ‘strong positive’,’slightly positive’,’slightly negative’ and ‘strongly negative’ returns.136 variables ranging from technical indicators,fundamental indicators to engineered features were selected chosen which were later pruned using fuzzy similarity entropy measure(FSAE)(Lohrmann *et al.*, 2018).Multiple strategies involving permutation and combination of long(buy) and short(sell) were compared with the benchmark of long(buy) and hold.The study indicated that classes with strong signals to buy and sell were the most accurately predicted than those with slight buy and sell signals.(Lohrmann and Luukka, 2019).Study combining multiple feature selection methods like principal component analysis(PCA),genetic algorithm(GA) and decision tress(CART) has shown how intersection of PCA and GA and multitersection of PCA,CART and GA for feature selection results in accuracy in the range of 79%.(Tsai and Hsiao, 2010).Bayesian networks have been used to determine the influence of one closing market on the other opening market over 24 hour and 48 hour window around the globe keeping the main index of Sao Paulo stock exchange iBOVESPA as the pivot.This research proves that the markets around the world are interrelated.Results from the research provide mean accuracy of 71%.(Malagrino, Roman and Monteiro, 2018).

**2.2.2 Deep Learning Models**

Deep Learning models are a popular choice for predicting the direction or value stocks.In the recent times technological advancements have led to increased use of Deep learning models due to two primary reasons:first being the availability of enormous volumes of structured and unstructured data at least latency,second being the increase in compute power given advance processing systems like Graphical processing unit(GPU),cloud computing to state a few.

Deep learning models tend to solve for the lacunae of stock data that pose challenges traditional time series models,they work well on non-stationary,non-linear,noisy data.(Niaki and Hoseinzade, 2013).Most popular deep learning models could be classified into three categories viz.standard models,their variants,hybrid models and other models.Popular standard models include feedforward neural network,convolutional neural network and recurrent neural network.Hybrid models are a combination of one or more standard deep learning models or a combination of standard deep learning models and traditional linear models.Others catergory has models like generative adversarial network, transfer learning.Re-inforcement learning models.(Jiang, 2021).

Feedforward neural networks have been popularly used in Artificial Neural Networks(ANN) and Deep Neural Networks(DNN).ANN was used in predicting the closing price of PETR4, traded on BM&FBOVESPA, feedforward multilayer perceptron composed of three layers input,hidden and output layer was used.Best performing model had a time window size of 3 with a prediction of change direction(POCID) accuracy on test set at 93.62% and performed much better than the baseline logit model.(De Oliveira, Nobre and Zárate, 2013). DNN is an advanced version of ANN with more than one hidden layers.Recurrent Neural Network(RNN) is a variation of ANN where the output of previous step is used as input of current step thus capable of remembering immediate past value.However RNN have problem in handling long term dependencies that are solved by Long Short Term Memory(LSTM) which include memory cell that can maintain information in memory for long period of time.

LSTM models have shown promise over years and multiple research attest to the fact.LSTM compared to traditional time series auto regressive integrated moving average (ARIMA) model gives good results in terms of higher accuracy and lower forecast errors.(Siami-Namini and Namin, 2018).Another enhanced use of LSTM model through attention mechanism was used for stock price forecasting after extracting news information in auxiliary role to gauge price movement.Stock price passed through wavelet transform and attention based LSTM was found promising.(Qiu, Wang and Zhou, 2020).A LSTM-DNN based time-series model for stock price prediction was developed using new auto-regression scheme,autoregressive moving pointer model(AMPM)..Herein input output that are fed to LSTM-DNN model are generated through the AMPM model on NIFTY50 data.(Rather, 2021).Ensemble model consisting of deep neural network(DNN),gradient boostd tree(GBT),Random forest(RF) for equal weights strategy with top 10 stock of S&P500 provide daily returns of 25% and 73% per annum.Research also points to the importance of hyperparameter tuning and combining base learners as per the compute power,so does the need to use advanced ensemble integration methods like stacking or superlearning.(Krauss, Anh and Huck, 2017)

Reinforcment learning(RL) frameworks aims at solving Markov decision problems. RL framework has three major formal elements (i)Sequential decision making(ii)Scalar reward(iii)Delayed feedback.Major components of RL configuration are agent-environemnt,action-reward.The baseline for RL is Markov decision process(MDP) wherein the reward depends on last state and action,current state is the sufficient representation of past.There is a assumption that the agent acts to maximise reward. RL algorithms have two popular classifications viz:value based and policy based.RL have helped in modelling the stock prediction problem closer to real world scenarios be it accommodating constraints or moving away from strict model formalisations.(Singh *et al.*, 2022).

Fig 1:Dominant Algorithms in Modern RL used in Finance.(Singh *et al.*, 2022)

Double Deep Q-Networks

Distributed Deep Q-Networks

Deep Q-Networks(DQN)

Q-Learning

Reinforcement

Learning

Actor Critic Methods

Model Based Methods(MBM)

Value based Method

Policy Gradient Methods(PGM)

Integrating MBM and Model Free Methods

Pure MBM

Stochastic policy Gradient

Deterministic Policy Gradient

Combined PGM and Q-Learning

Use of Policy or Value based RL methodology is determined by the nuances of problem at hand.Q-learning a type of value based approach has been tried very early in combination with nueral networks to achieve better results than the nuero-fuzzy model.The experiment gave 25% better returns in test phase and kept capital out of market in case of volatility or absence of trends.(Neuneier, 1996).Q-Learning compared with policy based method recurrent reinforcement learning(RRL) does not fare equally good on efficiency and simplicity often leading to unnatural problem representation.RRL method was found to be more explainable than Q-learning as well.Run time of Q-learining was almost 150 times that of RRL method.(Moody and Saffell, 2001).In Current times there is a big push on sustainable development,various supra-national organisations including United nations have come up with sustainable development goals.In this vein global investors and organisations want to invest under the paradigm of socially responsible investing(SRI).Enterprises that promote sustainable development score high on Environmental,Social and Governance(ESG) metrics.

SRI has been enabled through an experiment wherein multivariate bidirectional LSTM is used to multiple time series prediction for stock returns for a multi-objective portfolio construction.

Reinforcement learning is used to tune hyperparmaters as per changing market dynamics.(Vo *et al.*, 2019).

**2.3 Summary**

The chapter starts with an overview of traditional portfolio optimization theory and methods.

This provides a baseline over which development in the portfolio optimisation areas have happened.Limitations of MVO methods have been highlighted which broadly relate to their too simplistic view of portfolio optimisation,which has additional nuances added when portfolio optimisation plays in real world scenarios.There is a discussion on how multiple shortcoming have been addressed by new methods due to growth in research and emergence of new computational power in technology.Development in portfolio optimization theory have been logically explained under two emerging trends one being problem specific development where portfolio optimisation has been treated in more complexity nearing the real world situtaions.Other being the methodology specific development that has seen new methods,hybrid methods and computationally intensive methods gaining popularity.

Two areas of developments have been described in detail from dimensions of problem and method enhancements viz. Traditional machine learning methods and Deep learning methods.

Major research in the area has happened in supervised learning space where historical data is used to either forecast the value or direction of stock at various frequnecies.Regression and classification methods have been described highlighting major development in those areas.Ensemble models like XGboost,Random Forest have been illustrated with their use cases of reseach.Linear models like decision trees have also been highlighted for their utiliy.Finally in discussion about the deep learning models which provide solutions to the shortcoming of traditional Machine learning models standard deep learning models like ANN,CNN,RNN and their utility in portfolio optimization space are discussed.Certain variants of standard model and hybrid model find mention.In other category RL models are discussed with their variants and how they help in imbibing constraints in their formalisation.

CHAPTER 3

METHODOLOGY

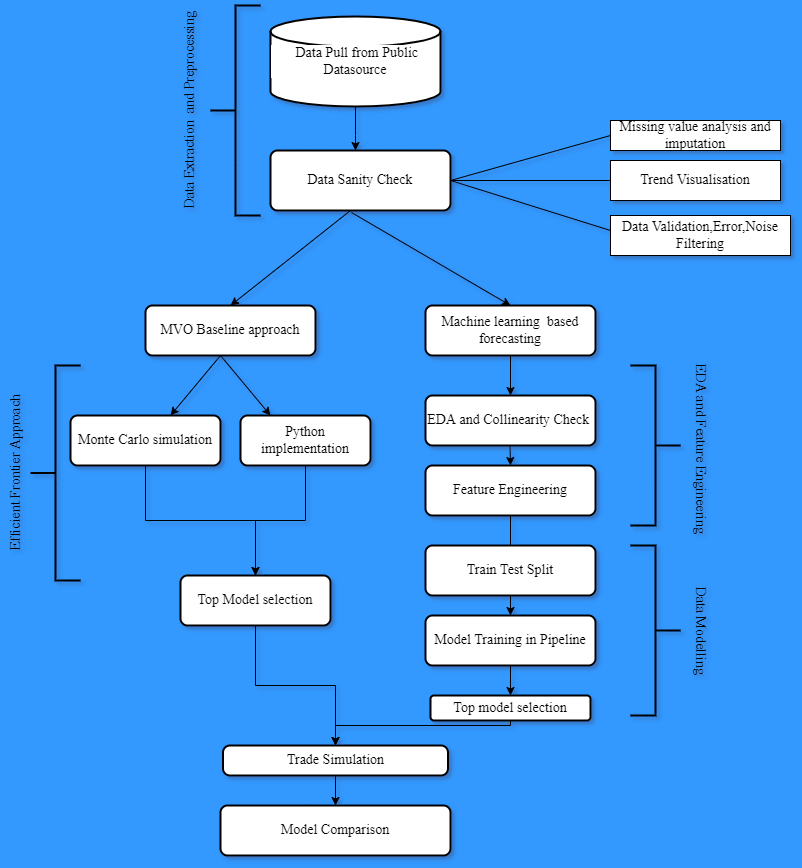
**3.1 Introduction**

Portfolio optimisation is a data intensive problem solving method.Historical data from stock market is used to derive historical patterns that show the vital statistics of a stock.Indicate the direction of market, reveal a lot of micro and macro relationships.Data granularity can go down to second level information to daily open-close prices some of which is freely publicly available.Traditional method of portfolio optimization relates to Mean Variance optimisation(MVO) that can be programmatically solved used computational tools.MVO tries to find a sweet spot of maximum returns at optimum risk or variance which can be measured through the metric of sharpe ratio.This techniques leads to weights or proportions that could be invested said stocks of portfolio.In this technique temporal pattern of close price of the stock could be used to get both a measure of return and variance in stock.

Machine learning methods of portfolio optimisation on the other hand mostly deal with portfolio optimisation as a supervised learning problem wherein either the direction or value of stock is forecasted thus it turns into either a classification or a regression problem.As per the choice the metric of model performance also change.Metric in a classification problem range from Area Under the Curve(AUC) to metrics like recall,sensitivity or accuracy derived from confusion metrics.In a regression problem metric like Root Mean Square Error(RMSE),Mean Absolute Percentage Error(MAPE) are preferred.

The methodology followed in this study compares the traditional portfolio optimisation methods of mean variance optimization with multiple standards and ensemble machine learning. Forecasts thus obtained are used to simulate trade at multiple time windows to compare the efficacy of one approach over other.

Fig 2.Flow of work



**3.2 Markowitz Portfolio Selection Method:**

Markowitz theory of portfolio optimization is based on mean variance optimization.

For theoretical treatment let’s define the expected returns as:

return for *i*th security

is the total return ……………..

Where the variables is the anticipated return at time *t* per dollar for security *i*.

is relative amount invested in each stock,

this excludes short sales, (Markowitz, 1952)

Thus for a portfolio with N assets expected return(*E(r)*) can be expressed as:

Variance for such a portfolio can be expressed as:

Where is the covariance between the return of *i*th asset and *j*th asset.Mean variance optimization has three constraints under which the variance is minimised with constraints as:

The solution to problem leads the efficient frontier for N risky assets.(Gökgöz and Atmaca, 2012)Fig 3.

Efficient Frontier

Expected return(r)

Opportunity

Set

Global minimum

Variance portfolio

Risk (σ)

Defining the investor’s utility function (U):

here*“A”* is an index of investor risk aversion.(Gökgöz and Atmaca, 2012)

Thus the final equation looks like:

Under constraints:

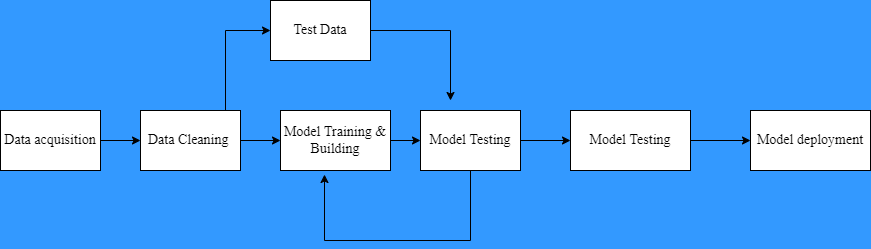
Where

**3.3 Supervised learning**

The challenger methodology to Markowitz mean variance optimization method is supervised learning models. Machine learning is a subfield of Artificial intelligence where the aim is to develop “Agents”, “Mathematical functions” or “Autonomous software components” that can iteratively perform better through information gather from world.(Laperrière-Robillard, Morin and Abi-Zeid, 2022).In supervised learning usually a large enough set of learning examples are used to establish a mathematical relationship between the independent and dependent variable.Indepent variables are a set of statistically or business defined variable that are considered to be significant enough to correlated to the dependent or target variable.Cases when the dependent variable is categorical are called classification problems and where the dependent variable is continuous are called regressions problems.Often choice of independent variables get restricted to data available for a particular phenomenon.There are tests to determine which variables are of importance and which are redundant or duplicate.Phenomemon where the variables are scarce or have relationship which are not explicit to mathematical function in such scenarios uni-variate,bi-variate or multi-variate analysis is done to find hidden or implicit relationship.This technique called feature creation or feature engineering is of much importance in supervised machine learning area.Supervised learning has two important components the learning phase and prediction phase.In learning model or mathematical function is tuned or trained are per training data.In prediction phase the learned model is used to make predictions on test data.These test and train data are part of the same data set which are split as data sampling methodology apt for problem at hand.These sampling strategies could like random sampling, stratified sampling or as in this case sequential split.These choices is made to keep the model accurate and generalised for unseen data or reality. There are multiple metric which are used to select the best fit, which will be discussed in later sections.

Supervised learning phases could be summarised into logical phases. (Rohaan, Topan and Groothuis-Oudshoorn, 2022)

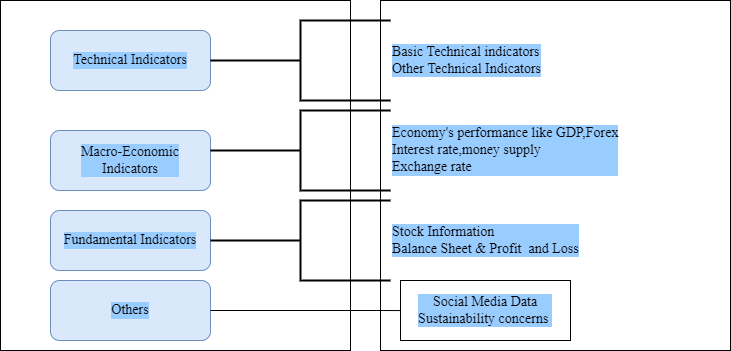
Supervised machine learning framework Fig.3:



**3.4 Input Data and Feature Engineering**

Input data in supervised learning is use case specific data.Data could be structured i.e having a defined format like int, float,string or time series data as in this case,data could be semi-structured like java script object notation(json),hypertext markup language(html) etc. or data could be unstructured like images,audio,ge-spatial data.In case of semi-structured and unstructured data cleaning and pre-processing more intensive than in case of semi-structured data.However data validation,veracity check is mandatory for all forms of data.The choice of feature engineering depends on the input constraints data of the machine learning algorithm being used and the specific underlying relationship needs expression.Input variable for Stock prediction problem could be classified broadly into fundamental indicators, macroeconomic indicator and technical indicators.(Tsai and Hsiao, 2010).Fundamental indicators are derived from analysis of company fundamentals like annual statement report,balance sheet,growth forecast in the area where company operates,market capitalisation etc.Economic indicators are the macro-economic factors that indicate the health and direction of economy where the particular stock operates as the stock indexes are impacted due macro-economic scenarios.These indictors influence the demand-supply forces, investors both domestic and international confidence.Ecomonic indicators are numerous and not limited to Gross Domestic Product(GPD),GDP growth,Index of industrial production(IIP),Wholesale Price Index(WPI),monetary rates etc.

Fig 5.Input Variable types and sub-types.(Kumbure *et al.*, 2022)



Technical indicators have traditionally been used study dynamics of stock market at granular and aggregated levels.Stock price movement is charted,measures of central tendencies derived over time to state few.They include moving averge(MA),moving average convergence and divergence(MACD),relative strength indicator(RSI) etc.(Tsai and Hsiao, 2010).

For the purpose of this study simple moving average(SMA) and relative strength indicator(RSI) are being derived from stock data.Simple moving average is the simple average of closing price of a stock for past “N” days.

Where denotes price at *ith* day.

SMA provides a reliable metric providing smoothened pattern of price movement with minimal noise.SMA with *“N”* values 14,30,50,100 are popularly used.

RSI is another popular technical indicator.It is a momentum indicator that indicates the intrinsic strength of the stock.

Where RS is the relative strength.

**3.5 Machine Learning Models**

Supervised Machine learning models used to solve stock price prediction problem here are regression based models.Sequential data split was done to keep the time series pattern intact.

This suits the scheme because model should learn from historical patterns,in this scheme older data is used to train the model which is tested on recent data.As it is a regression problem the Target variable is one day future closing price of stock.The models used in the study are advanced Boosting or ensemble algorithms. Such algorithms have a characteristic of having multiple hyperparameters.Hyperparamters are arguments that get supplied mostly manually by model developers.To find parameters that lead to best performance a process of hyperparamter tuning is carried out.Their are multiple hyperparameter tuning techniques like random search,Bayesian optimization,Evolutionary optimization,Grid search etc.Grid search was used for hyperparamter tuning during the study due to its generalizability and efficiency as intuitive grid values are searched. Other methods might provide results that are better and non-intuitive but require a lot of time due higher search space.Another technique that needs mention due to the nature of algorithms used in study is early stopping support,this is a technique which checks for incremental gains by adding more tree to the model training process if the model performance decreases by adding more iterations beyond a point then the training process stops.This is a deterrent against overfitting.

**3.5.1 eXtreme Gradient Boosting(XGBoost)**

XGBoost is tree Boosting Algorithm that has high computational efficiency and low complexity.XGBoost has proven been on leaderboard of various computational challenges due to its high accuracy.Multiple classification and regression tree(CART) act as slow learners to iteratively reach results with higher accuracy.XGBoost models have regularisation term that control the variance of fit in order to keep model flexible and generalizable to avoid overfitting.(Nobre and Neves, 2019).Given the XGboost trees develop in parallel model provides for parallel computing with faster execution time.Given the data points in real trading environment could increase exponentially if the granularity set to second or hour level XGBoost model could prove robust.XGBoost can use tweedie loss for zero-inflated positive distributions,for right skewed positive distributions gamma loss function could be used,poisson loss for count problems though the default loss function is least squares loss.

**3.5.2 Random Forest**

Random forest belongs to class of ensemble models where multiple similar models are used to arrive at consensus output.Random Forest model is composed multiple decision trees which are run on bootstrapped data on random set of “N” features this leads to creation weakly correlated trees as opposite to decision trees.These “N” features is one important parameter of this algorithm that can be configured.This leads to generalised model that performs well on unseen data.Power of parallel computing is also an advantage and model accuracy is high.Another important additional feature is that of “ExtraTrees” model which increases the randomness in splits.As no sorting is done on input data for splits thus this model is even more efficient.

**3.5.3 Light Gradient Boosting**

Light Gradient Boosting Models(LightGBM) have host of benefits that range from faster training time,parallel learning,better accuracy to state few.These models apart from handling missing data also balance bias and variance appropritelty.GBM models are similar to random forests in the sense that they fit multiple decision trees but these trees are not fit independently as in Random forest rather the new tree is fitted on the residual errors of all previous trees combined.**Saphire Citation.**Two critical parameters to these models are learning rate and number of trees,these parameters should be set carefully as this could lead to overfitting.GBM models have a quality of extracting maximum latent patterns from the dataset as they have a capability of finding a point from where overfitting of models begins and stop training just a step before that state.

**3.5.4 Eureqa Generalised Additive model**

Eureqa model is a surrogate model it uses Eureqa’s engine to approximate GBM predictions.

Eureqa models are AI-powered proprietary models of Datarobot that leverages automated evolutionary algorithm.Model is explainable in a sense that models are represented in form of mathematical equations.Eurqa models have concept of expressions that are human readable mathematical equations that highlight relationship between features.Building blocks are mathematical operators within those symbols.These are advanced tuning parameters that can impact model evolution and have an impact of model complexity with a related metric of complexity score.The hyperparameters of this model are permutation combination of building blocks and surrogate hyperparameters of XGBoost.**Citation**

**3.5.5 Elastic net Regressor**

Elastic net regressor is based on Lasso and ridge regularisation trained linear regression.This provides for advantages of both lasso and ridge.Elstic nets are used for scenarios where there are large number of correlated features.This comination of L1 and L2 regularizers leads to sparse models where only some weights are finite.Elastic net model allows the dependent variable to have error distributions that are different from normal like poisson,gamma etc.

**3.5 Data Split**

Data sampling for the particular study is sequential for model to learn from historical patterns and predict future stock prices.

Fig 6:Data split framework

Diagram

Description automatically generated

Same scheme for data splits is followed for all the stocks and multiple models that are build for forecasting stock prices.More than four years data is used for model training and three months each data is used as validation and test set.Test set is used as holdout sample because model does see this data till the end of training and hyperparameter tuning steps.

**3.5 Model Metrics**

Mean Variance optimisation method primarily utilised three measures to gauze method’s performance are the return at optimum risk or variance in intuitive terms.Sharpe ratio is an important metric in portfolio optimisation.

Sharpe ratio in generic terms measure the risk and reward of a portfolio. Its formula can be expressed as:

…3.5.1

In equation 3.5.1:

is return of the portfolio

is risk free rate

is standard deviation of portfolio’s excess return.

Sharpe ratio provides a cue into performance of a portfolio and further comparison, ,higher Sharpe ratio indicates higher returns under optimum risk.

For supervised machine learning models that have been used in the study the metric of choice is mean absolute percentage error (MAPE):

…3.5.2

...3.5.3

Where is the actual value for t observation and is the forecasted value.The error percentage absolute forecast error to actual is divided by total observation in the set under study to obtain mean absolute percentage error.MAPE has been chosen to compare multiple Machine learning models that require different data manipulations. Lower value of MAPE is preferred.Also a significant difference is MAPE of training and test set or unseen data with MAPE value higher for test data is an indicator of model Overfitting.As no data normalisation or standardisation was conducted for any model thus MAPE provides good baseline for comparison.

**3.5 Tools**

Tools used in this study were anaconda provided python version 3.6.1.Python is an opensource functional programming language that among other things is very popular for data analytics and Machine learning.Python comes with multiple packages supporting various fuctions.Pandas package is a popular package in python this package is used for data reading,writing and manipulations has been used during this study.Matplotlib is a python package used for visualisations.At places google collab has also been used to speed data processing.Certain other propriety softwares have also been used for the process of analysis and modelling. Tableau version 2020.4 has been used to create advanced visualisations.Tableau is beneficial for creating custom plot,dashboards with multiple option in charting and data manipulations.AutoML tool Datarobot has been used to build challenger models.Datarobot has an advantage of faster model executions due computing supported by multiple cores of spark cluster that has proved to be industry reliable.Datarobot also allows easy and robust deployment of Machine learning models.

**3.5 Summary**

Methodology of the study has been driven by two choices and its leading consequences.Portfolio optimisation through MVO technique bases itself on annualised return and variance wherein sharpe ratio is used as a metric.Data being sourced from free public source has a daily granularity.MVO does not require feature engineering and uses data in raw form.MVO method is implemented in two ways first being random simulations of weights for each stock,with corresponding return and risk being captured.The other method uses python custom package to find optimum portfolio.

Supervised learning methods require feature engineering to extract information from data.Use of ensemble models help in gaining optimum efficiency as proven in number of studies.This study is designed to forecast future value of stock thus regression models are used.A pipeline of models is created using AutoML tool Datarobot and top performing models are chosen as challengers on the basis of MAPE as data not scaled before predictions.

Comparison of returns from the portfolio created through weights arrived at by MVO method is done with forecasts from the top ML models.These simulations are conducted and discussed in “Results and Conclusion” section.

CHAPTER 4

IMPLEMENTATION

**4.1 Introduction**

Data was sourced from freely available public data source of yahoo finance.A set of ten stocks were chosen from the National stock exchange(NSE) benchmark index Nifty50.Past four and half year data was read through python package.This data was analysed for trends in Tableau,data was smoothened through data manipulation in python.Stock data was in time series format with open,close price ,volume etc.This data was used to create optimlal portfolio using Monte Carlo simulation in python to find the efficient frontier.Mean variance optimisation was also done using Polyoft package of python.Optimum portfolios for maximum returns,maximum varianace and maximum sharpe ratio were obtained.

Challenger models,mostly ensemble models were developed in datarobot.These models were fed with data that was enriched through feature engineering.New features representing momentum indicators like simple moving average(SMA),Relative strength index(RSI) were created for multiple time periods like 7,14,50,100,200 were created.This data was split into train-test–validation set and fed into Datarobot to create select models which were further tuned to get optimal results.The predicted values from the test set which is unseen data is further used simulate trades in one data future.

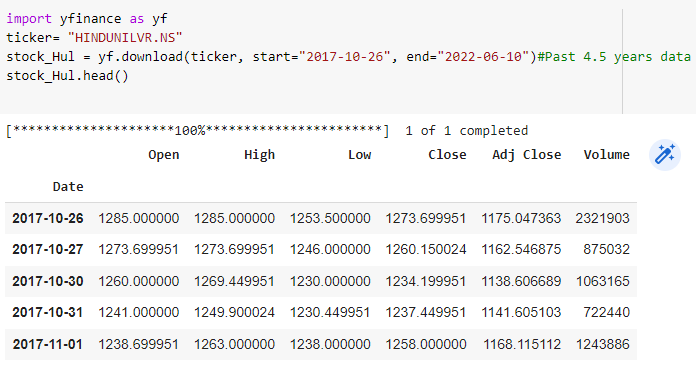
**4.2 Data Extraction**

A representative set of stocks chosen from Nifty50 was selected for portfolio optimisation.

Table 1: Stock List

|  |  |  |
| --- | --- | --- |
| Company Name | Industry | Symbol |
| Adani Ports and Special Economic Zone Ltd. | Services | ADANIPORTS |
| Asian Paints Ltd. | Consumer Durables | ASIANPAINT |
| Bharti Airtel Ltd. | Telecommunication | BHARTIARTL |
| Hindustan Unilever Ltd. | Fast Moving Consumer Goods | HINDUNILVR |
| NTPC Ltd. | Power | NTPC |
| Reliance Industries Ltd. | Oil Gas & Consumable Fuels | RELIANCE |
| State Bank of India | Financial Services | SBIN |
| Sun Pharmaceutical Industries Ltd. | Healthcare | SUNPHARMA |
| Tata Consultancy Services Ltd. | Information Technology | TCS |
| UltraTech Cement Ltd. | Construction Materials | ULTRACEMCO |

Data is downloaded from open source yahoo finance database.Yfinance package of python was used.



Data was downloaded for 10 stocks and downloaded into .csv files.

**4.2 Initial Data Visualisation**

Data at daily granularity has lot of noise leading to uneven pattern.

Fig 10:Daily stock price movement for 10 stocks.

Chart

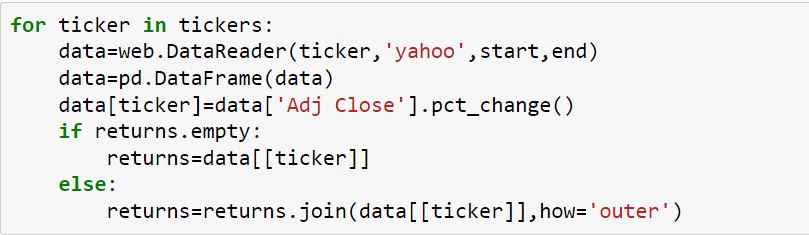
Description automatically generated with medium confidence

These daily values will be smoothened by creating features like SMA and RSI in further section.

**4.2 Mean Variance Optimisation implementation**

Mean variance optimisation is implemented in python in two ways.First method involves use of python libraries to create annualised returns and co-variance matrix.Further calculating maximum returns, minimum variance, maximum Sharpe ratio portfolios.

After reading the stocks data,First step involves calculating percentage change or returns.



![Table

Description automatically 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KACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP//Z)

Monte-Carlo simulation is done for multiple combination of weights for each stock that add upto 1.We calculate annualised returns, covariance matrix and thus portfolio standard deviation for these random portfolios.Which is further used to calculate Sharpe ratio.

![Graphical user interface, text, application

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNpbmdoIFJhamVldiBLdW1hciAoNVkpAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMxMwAAkpIAAgAAAAMxMwAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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1000 combinations of weights per stock with expected returns,risk and sharpe ratio ratio are retuned.

![Table

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNpbmdoIFJhamVldiBLdW1hciAoNVkpAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAM5MAAAkpIAAgAAAAM5MAAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Next we display the simulated cases where returns,risk and Sharpe ratio are maximum.

![Table

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNpbmdoIFJhamVldiBLdW1hciAoNVkpAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMwNQAAkpIAAgAAAAMwNQAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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In this scenario a maximum sharpe ratio of 1.022 is achieved with a return of 19.4%.

|  |  |
| --- | --- |
| Stock | Portfolio Weight in percentage |
| HINDUNILVR.NS | 8 |
| ADANIPORTS.NS | 9.4 |
| ASIANPAINT.NS | 17.4 |
| BHARTIARTL.NS | 17.8 |
| NTPC.NS | 3.7 |
| RELIANCE.NS | 10.2 |
| SBIN.NS | 6.9 |
| SUNPHARMA.NS | 5.7 |
| TCS.NS | 16 |
| ULTRACEMCO.NS | 4.9 |

The efficient frontier achieved is visualised through Matplotlib.

![Chart, scatter chart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNpbmdoIFJhamVldiBLdW1hciAoNVkpAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAM3MQAAkpIAAgAAAAM3MQAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Another simulation is done for portfolio optimisation of these ten representative stocks though an open source python package by the name PyPortfolioOpt.This package is used to arrive at efficient frontier for maximum sharpe ratio.

![Graphical user interface, text, application, email

Description automatically 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a20iKRWuH8y4uZpWlmnfGNzyMSWP8ALtXEWfwKsdOEw03xz43s1nlaaRbfV1jDu3ViBHyT69abs0otaL/O/wCoa6y6/wDAt+h6PPPa6PpMk9zKsNpZwlnkc8IirySfoK4Xwfa3t/4a17xndxyR6n4hieW2jI+aC2VCLeP64+c+710eqeDbXWfBcXhnUdR1Ka0VIo5p2nBnuVQgkSOV53Y+bABOT0rfjjSKNY41CooCqoGAAO1Ka5lJX30/4P8AXn3HF2t5f1/XyPBfDA8QeJ/gvaWcGzwt4TtNKZby9fa1zflVPm7ByI0LbsscsewHNLa2/iDULT4S6dp97a2F0dJnmSe8tzMsbrFGFZUyAzhGOM8DJrurj4MeG7jUJn+2azDplxKZptEh1BksJXJySYh6nnAIHtXQ+J/Bek+K9MtrO+FxatZuJLO5sZjDNasBgGNh044x0qnK7cu7X6/56enS5Nuna/6f5a+pzvhjUfFWifED/hE/Fmt2/iFLrT2vra+jsltpI9jhGR0UlcfMMHrxUvj+VvEetaX4DtWO3UD9r1VlP+rso2GVPp5jYT6bq1/CngPTPCc091Bdahqeo3KCObUdVujcXDoOibj0UegAq7pnhiy0vxFq2uJLcT32qGMSvOwIjRBhY0AAwo5OOTkk5o7X6f56fp628w72/rv+tjRurq10rTZrq6dLe0tYjJI54WNFGSfoAK4v4fW11e6dqnjTUImTUPEB86CJx80FqgIgj/L5j7vXS+J/Dlr4s0GXR9RnuYrSdkMwt3CmVVYMUJIPynGDjBx3rVjjSKNY41CIgCqoGAAO1Tun939f137j2t/X9f8ADHhPgfTvH6fCm08Q6L4v0yyhSGa8OnHSxItw+5mfzpmbcGJByVHFeqaf40sG+Hdj4s1qRNPtriyiuZN+flLqDtA6kknAA5PFYd18GvD1zqFxIuoa5baddStLc6Nb6k8dlMzHLboxzyeoBAq/4y+GmmeNItKjn1LVdJTSW3Wq6TcLAFbACnlTgqBwRjGTTbuvu+Xf1/4AWV9fP59iLwRpV9c+INa8ZavatYTa0sMVtYuMSQ28QOwyejtuJI7DA65ql4khit/jN4Bit4kijWDUQqIoUD92vQCtTwt8P/8AhF9Ve+/4S3xTrG6IxfZ9X1L7REMkHcF2j5uOvuawbz4IWd9qyalP448bfaoWcwSDVxmAP94ITHlQRxgHoKNE1bbX9f8Ahw3TuanjnSPEMfibRPFXhSwg1a50uOeCXTZrgQGaOULyjn5VYFe/Y1g+GrvxJq3xyF54g0W00Z4tAZJLW3vRcyIGmUoJWAC5JDlQOwNdjrPgoaz4e07ST4k8RWIsAgN3ZX/lXFztXb+9fb82ep6c81c8NeEtJ8J2s0WkxSGS5fzLm5uJmmmuHxjc7sST/Idqcfdl6Xt80/8AMHqvW34P/gHngi+JPw503Wb2C18M6loFvdXeomETzpdmN5GlI3FdmQCeMfnVjx9qi+ItL8GX3hhrmDxPft9s0MALtQGLMvnbuPL2Ng456YrXm+EWmX+pTz634i8T6xaTymVtMvtVZrXls7fLUD5R2BOMCtrxV4D0bxbaWUV79psptPYtZXenzGCa1JGDsYdBgDjGOBUr4Un5fh/SHpd/P8TjvBMmsRfFe+T4iIg8TTadiweyObI2iuN4jB+cNvILb+emOKriL4k/DnTdZvYLXwzqWgW91d6iYRPOl2Y3kaUjcV2ZAJ4x+ddj4V+HeleFtSk1Nb3VNY1SSLyDqGr3jXEwjznYCcADPoKzZvhFpl/qU8+t+IvE+sWk8plbTL7VWa15bO3y1A+UdgTjAp66W7P87/15i0u7/wBaW/ryOjTxZpSeC7fxRfzix06a0jui83BRXUEDHc8gYHJPSsHwdpt/feItZ8balaPYvqkMVvY2UgxJHbx5KtIOzsWJ29hgdc1a8bfDjTfHFvpkN3qWq6XHpchktxpc6w4bACnlTyuPlIxjJpPC/wAPf+EY1c3/APwl/irWMxNH9m1bU/PhGSPm27R8wxwfc0Ozba03t/X4BtFLfv8A1+J5x4D0vx/N8NYtd0TxfpunRhrm6awOlLL9ok8xy/nSs24MWBB2jjivXvB+uv4m8GaRrcsIgkv7SOd4hnCsy5IGe2elcze/Bzw/ealczpqGuWljeStLd6Taak8VncM3LFoxzz3AIrY8YXMWh+DGsbLQNR1OG4j+wRWWkR4aNWQgEnI2IAMbu2RQ5Wi3btp/XyHa8/v/AK/M6eiuM+EvhvVfCfwz0zSdfkLXsQdmjMm/yQzEiPd3wDjjj04rs6clZ2JTuiOSGKR0keNGkjzscqCUyMHB7VwHwI/5I1pH/XS5/wDSiSuj8W+E/wDhLLS3g/t7XNF8ly/maNefZ3kyMYY4OR7VkeB/hdZeArndpniLxFeWwiaNLC/vlktk3NuLLGEUBs559z60Re6f9blN+7bz/wA/8zt68r+IuqX2lfFrwjLp+jSazdvZXsdjbCRY0E58vLszcKAm7J5OK7K98E6bf+PbDxdNPerqFhbtbxRJORCytnJZMdeT3A6ZBwKl8V+ENM8YafFbap9ohkt5POtru0mMU9s+MbkcdDj8Kns/66r8tQ7o880rS9fsvjxol34i1iLUNUu9Iu2u7e2j2QWcIZPLSMfeI3k/M3Jx2rpfiBqj63bXXgXw8FudX1O3Mdy5GY9Pt34aWU9iRnavUn25rV8J+A9L8Iy3N1b3OoalqN0qpPqOqXRuLiRV6KWOMAegArmB8D7GHUL68sfGvjOwkv52uLgWmqrErue5xHz6c54oeqUemv53t+Ov/BuJXTclvp+X/A/rYr/ETS7+2vPh54f0G6t7cR3jRxT3sRljV4rdtjFQRuYDJUf3gKv6LfeL/DXxC07w74q1+38R2usW080FylgtrJbvFtJBVCQVIbqec/rvX3gDTNV8HWnh7V7zUr9bNlkh1Ce6JvEkUkrJ5oAO4ZxnHSm+Fvh7pnha+k1AX2qaxqbx+T/aGsXhuZljznYpOAq59Bz3qk/ebfd/l/mK3upLsvzM/wCJF3Nqf9neCdNkZLvX3K3MiHmCyTmZ/YkYQe7e1J408Oaxb3nhvWvBlhbXs/h4yxrpcs/krNC8YTCOeFYYGM8cmuitfDFla+L77xIZZ57+8gjth5rKVgiTJ2RgAEAk5OScmm+KfDX/AAlOmxWZ1rWNH8uUS+dpF39nlbAI2lsHK89PYVOy03/r9PzZWl/L+v6+SOB0e+8Tax8cNJufEOhWuhvBotzvtob4XUqo0kYHmMoCgFh8oHo1c4kfjObT/Es3w0cSeELi7nLJdMouy5c/aDaE8BSd2PM79B3r1/wz4O0jwnHP/ZiTS3N0Q1zeXc7Tz3BAwN7sSTj06D0rmbr4MaFNfXEtjrHiLSrO7kaW50zT9TaK1mZvvZTHfuARQ1sl2f4u/wBwJ9X3X4K33mW2mT33hfwL4p+GVkmoQaLbuLfTb2fyWnhkjCEbzkCQFep4603R77xNrPxw0m58Q6Da6G8Gi3O+2hvhdSqjSRgeYygKAWHygejV2eq+BrK+8L2OgaZqWreH7OxK+SdGuzBJtUEBC2CSvOT3JAOas+GfB2keE45/7MSeW5uiGuby7naee4IGBvdiScenQelXdc7l62+a/wCCRZ8ij10/B3OV+J1p48v7HULbSIdHn8NSWuLqESvHqEqYPmKjMDGMjgEiotVtdQ1vSfBfjPwBp8d7/ZkDPDpd3N5BlgliC7QxyFdQBgnjrV6b4SWN7qFxPqvirxZqNrcyM8mnXGsP9mIY52bFAO3tjPSt/wAQ+Eodd0O20q21XVdBgtXUxtotz9mfaqlQmQD8uD09hUK6j56fr/n+Zejl95wWl33ijWPjXplzr2g2uhywaJdZtob4XUqozxhfMZQFALD5QPRqw/h43ifxJ8NbfSdNA8N6LD541XWZ9r3F05kcyrEhyF7gyPz6DivW/DPg7SPCcc/9mJPLc3RDXN5dztPPcEDA3uxJOPToPSue1P4O+H9S1W6ulvtasbS+kMt7pdlqDRWl2x+8XjHr3wRmhpW5fL9W/u1+Yk+vn+lvv/4J5homo6lo/h74UTppM2syiO/WxtEcIHkPEJZm4UBCTnsMkCuoj0zxLb/G7wlqHiTVobrU7u2vjPY2ibYLK3CLtVP4my5GWbqRwOK9G17wToniHw9b6Nd27QW9oUaze0cxSWrIMK0bDlSBxVXwp8PtL8J3k9/Healq2pzxiKTUdWuzcTmMHIQMcALnnAFW3eTfr+P66/cL7Nrf1/l28zzL4dN4r8Q+A10fSkXw9p0U9z/a+tz7XnnlMrmRYU6A84Lt07DirvhLw9r2s/AbwzF4amsvtun6ibyzfU2cRPFHPJs3bBk5BHTHHpXWat8H9A1TV7q8S/1rToL+QyX2nafqDQ2t4x+8ZIx3PfBGa3Nc8HW2r+G7XRLDU9U8P21qyeU+i3P2aRVVSoTdg/Lg9PYVPTz0/D+tPIp2cn21/H/PqYXhzxb4qg8aw+FfHenaWl3d2j3dreaRM7QuEIDKUkG5TyOelTfEm+nvbew8HaVKyX/iKQwySIfmt7RRmeT2+X5R7sK0fC3gDSPCt3LfQTX+papNGIpdS1S6a4uGQHO3ceAM84AFXoPDFnD4wuvEryzzX1xbJaIJWBSCJTkrGAARuJyck5wKHZ2T+f8AX3J/MSurtfL+vvZxHxO0+7il8CaH4ee0so/7UEcJuojJDGY4HMeUBG4jGVGfvAVY0q+8YeFviDpOg+KfENv4ktNciuGhmXT1tZLZ4lDYwhIKEHGTzn9ew8T+FtM8X6MdN1iOQxCRZopIZDHJDIvKujDkMPWsvwv8O9M8Mag+pG/1bWtSaMwrfaxeG5ljjJyUUkAKM+goju2+7/K35g0rK3a34lP4k3097b2Hg7SpWS/8RSGGSRD81vaKMzye3y/KPdhXY2VnBp9hBZ2caxW9vGsUUa9FVRgD8hWbB4Ys4fGF14leWea+uLZLRBKwKQRKclYwACNxOTknOBVvWr6403Rrm7srCbUbiJMxWsGN0rdAMkgAZPJ7DJpbR/r5f13bDeX9fP8AryOR8Cj7N8QPH1lb8Wi6jBOoHRZZIFaQfmAT9a7yub8EeHLjw/oszapIk2r6lcPe6hKn3TM/8K/7KgBR7LXSVWyS7JL7kLdt+oUUUUhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/9k=)

Resulting return using this method is 21.8% for the portfolio allocation.

Tabe 10:Stock weights in predicted portfolio

|  |  |
| --- | --- |
| Stock | Portfolio Weight in percentage |
| HINDUNILVR.NS | 16.92 |
| ADANIPORTS.NS | 0 |
| ASIANPAINT.NS | 28.9 |
| BHARTIARTL.NS | 0 |
| NTPC.NS | 0 |
| RELIANCE.NS | 14.59 |
| SBIN.NS | 0 |
| SUNPHARMA.NS | 1.71 |
| TCS.NS | 37.88 |
| ULTRACEMCO.NS | 0 |

**4.2 Challenger models implementation**

Challenger modes being machine learning models will be fed with data enriched with features relating to RSI and SMA are created in collab.

![Graphical user interface, text, application, Word

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNpbmdoIFJhamVldiBLdW1hciAoNVkpAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMwNwAAkpIAAgAAAAMwNwAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Which leads to new data set with increased features.

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confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNpbmdoIFJhamVldiBLdW1hciAoNVkpAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMzOAAAkpIAAgAAAAMzOAAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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New features added are ma14,ma30,ma50 and ma200 for the moving average,for RSI new features added were rsi14,rsi30,rsi50,rsi200.

Adding Moving average helps in smoothening the data and removes unwanted noise.

Figure 10:Smoothened Data

Chart, line chart

Description automatically generated

Resulting data is split onto train,validation and test dataset.Each set having 1000,126 and 120 records respectively.A total of 10 data sets are created for which 5 models each are created.This results in a total of 50 models being created.Stock data is loaded into AutoML tool datarobot to create a model pipeline.Certain important Settings relating to sampling are made, target variable is one day future closing price.

![Graphical user interface, text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNpbmdoIFJhamVldiBLdW1hciAoNVkpAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMzNAAAkpIAAgAAAAMzNAAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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iiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/Z)

As mentioned in methodology MAPE is the metrics of choice thus optimization metric is chosen as MAPE,blender models are allowed and models are created with Data leakage features removed.

Fig NN:Additional settings

![Text

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igAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA6TxReW134iuLm1njlhlCMrK3+yBz6HjpWT5if31/OqNFaVJuc3J9TOnBQgoLpoXvMT++v50eYn99fzqjRUGhe8xP76/nR5if31/OqNFAF7zE/vr+dHmJ/fX86o0UAXvMT++v50eYn99fzqjRQBe8xP76/nR5if31/OqNFAF7zE/vr+dHmJ/fX86o0UAXvMT++v50eYn99fzqjRQBe8xP76/nR5if31/OqNFAF7zE/vr+dHmJ/fX86o0UAXvMT++v50eYn99fzqjRQBe8xP76/nR5if31/OqNFAF7zE/vr+dHmJ/fX86o0UAXvMT++v50eYn99fzqjRQBe8xP76/nTJZU8tsMCSMcGqlFABRRRSAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoqS2i8+6ihJwJHC59MnFSb7L/nhcf9/1/wDiKAK9FW40tZyyRxzIwRmBaUMPlUnptHpVVEaSRUjUszEBVAySfSmtdEISiuyv/hpqViupRDVNKudQ0u3+03mnQTSGaFMAseUCMVzyFY4rlZNOvYbGO9ms7iO1lO2OdomEbn0DYwaV0OxXoq3JpOowxW0kthdIl1j7OzQsBNnptOPm/CpF0HV2u0tV0q9NxInmJCLd97JnG4DGSODzQBQorobbwdqF74TOsWcc9xMuomxayit2ZxiPeX4546YxWdo2i3mu69a6TYxMbm5mWIAqfkJOMtjkAdT6U1q7IWyuZ9FdFr3hGfTfE1zo+jG71h7VcytFYyRlSOvynJ2+jdCDWPb6Zf3UEk9rZXM0UQJkkjiZlTAyckDjA5NSmmrodmnYq0VowaJcXOiHUYHR/wDSltVtlVzK7spIIwu0jjGM5z2qxp3hHXdT1Sz0+30u5We+OIPNiZFcZwTkjGBkZPSq62F0uY1FaDaDqo1K509NOupbq1J86KKFnZAO5AHT3qBdMv3smvEsrhrVRlpxExQDOOWxjqQPrSTvqh2d7FairN5pt9pxjGoWVxamVd0YniZN49RkcitPS/Buv6trcGk22l3Ed3cIZI1njMYKAZ3ZYdPf1IoAw6K07vQLuy06zupseZdzSQi12OJY2QgEMCoHJPGCT64qCbSNSt70Wdxp91FdFd4geBlfbjOdpGcYBOfagCnRVufStRtruO1ubC6huJQDHDJCyu4PTCkZOaiu7K60+5a3v7aa1nX70U0ZRh9QeaAIaK6PwP4J1Px74jTSdK2R4UyT3EudkKDucck5wAO5PYZI9Wn/AGfdDvm1DTPDfiwz67pyp58FxGBGpYZUNtGVBHcbsUAeDUVY1CwutL1G4sNQhaC6tpGilibqjA4IqvQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAWNP/wCQna/9dk/9CFV6dFI0MySJwyMGH1FTfaov+fK3/OT/AOKoALH/AI+G/wCuMv8A6Lao7cI11EJpWhjLjdIq7igzyQO+PSpftaqG8q1hjZlK7lLkgEYPViOhqtTTs7ieqPY9ZFnqOkatJ4xvfDuqww2jPpeu2c0cd9dygDy0eJG3NwQGDrx6962fF/iXTrjS9SFhLp50S+ht0t5n1sSCMBkwI7LaSjpjkYAxnJ5rwOigZ9E6jrGmx214L7WrOZf7Y0+azmn12O5e4jWdd04jGFhG0nIAGBnjAzXK/wDCRajrqeL7XSPEixazLqytazy6iITNZq8n7uKVmACglW2ggEdM15BRU2/r7v8AId3e/wDXX/M9g1TxddWOgyrB4sgn1KTxHC11cafMIfPjFsgZsKQWTcMFujEZrHu9Ys7X9oz+0tO1GGKwbWo3e7gnAiMbOu8lwcbSM55x1rzeiqj7s1Lt/wAD/Il6pr+uv+Z69FrWoaxo+sQeHvE8Flq//CQvcSzz6kLdprULtjIlZhuRME7QTxjApvjzxbZv4b16Pwxq6RC98Q5ljtJvLNxH9lVZH2ggmNpAxz0JNeR0VmoWSXp+Fv8AIvmd7/11/wAz07wDq2nWfhLS4bu/tbeWPxfZ3DpLMqssSpzIQTwo7t0FdF4c8dLiOfV/EheRPF6splvcstqUYEgE/wCqzjP8NeH0VpfVP+vs/wDyP4k393l9fxv/AJ/ge7aHrAsrTXbU3Vvc64uum5l/4qBLNpbfYPLbz8kSKvOUzxnpkYqjrni2C8vvDNrb6/b6VaT63dzaiun3Qlii/foVcggAjO5lLLjvjivF6KUVZxfa34W/yCTbTXf/AIP+Z9B3uvaNajRH1+9s3a38Sico+srqMiRGJwszEH5VL7G2jgcHA6Vl+Gdb1rQ/FGjjxX40srmGfUpmCLfrOfLaFgJDKGISJm2YQ45AOBivEKKVtLf10/yBv+vv/wAz2vRdZtdMtPDFrrGtWSaxA+rRtdPdpP8AZbmQARyyMGPBb+I/Xsafo+tnRm8PQeKfENpda5ayahMt0b9JzawtasqI0wYjLScquT1H0rxGinrytd1b+v620KUrM9l0DxSbjTPB1zda3ZXGrwjUo5Tqd8Vfa+AqGXO6IsM7XOADXMfFSdJrrRwdSe5uEtGE1pLeR3r2R3nCG4QfvM9cMSV9ea4Gik1e3l/wf8/61EnZWPXP2d/E2maF40vLPVZ47b+0oBHBNKQq71OdpY8DIzj1IA6kV7rpFvqeh+MPFGra7LHbaHcrE9vNc3oKw7NwYnP3VO4HrxjFfF1XLjV9Su7Vba61C6mgXpFJOzKPwJxTC5q+PtbtfEfj/WNW08H7LdXLNESu0so4DY7Zxn8a56iigQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAAEnA5NWP7Pvf8An0n/AO/Tf4Uaf/yE7X/rsn/oQqv160ATPZXUaF5LaZFHVmjIAqGrFj/x8P8A9cZf/RbVAnLr9aqK5pJCEor13xh4S8K2/iPxNqmrNd6fYWF9a20VppVvGN3mQbjgHCrypOfrxk1map8O9A8L3Gp3HiXVNQbToL9LG1FlChmctCs299xwAquoIHJPpU/199v80Ppf+uv+R5rRXsdp4S07V/CWg6BDqQubOTXL1Uv7ePaZFW33qQG6dBkdua5vwz8OrTXvDenatPqEttHLcXX2sqgby4IIhIxUdSx6UuZa+VvxS/zF287r7m1+hwFFexw+DtJ8YeHPC2n+G7i+TThNqFxK91En2gKgiyoCnaxJwByB83PSuP8AiD4Jh8InTZ7RrxIdQSQi2vwgnhZCAdxQlSDuBBFN6DSur/1vY4yivR5Ph1oyyzeH01S8bxTDp/2508pPshPliUwhs7t2w/e6Zp978PvDkdvqNlZ6nqTazZaKursJIU+z7fLR2jzncTh+DjH1oel79P8Ag/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Highly correlated features are removed,certain time based features like Data,Month are also removed.A new feature list is created and saved for model building phase to begin.

Fig NN:Feature Association

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNpbmdoIFJhamVldiBLdW1hciAoNVkpAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMwNwAAkpIAAgAAAAMwNwAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ooooAKKKKACiiigAooooAKKKKACiiigAooooAKgn++PpU9QT/fH0oAiooooGWYv9WKfTIv9WKfQIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAqCf74+lT1BP98fSgCKiiigZZi/1Yp9Mi/1Yp9AgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACoJ/vj6VPUE/3x9KAIqKKKBlmL/Vin0UUCCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKgn++PpRRQBFRRRQM/9k=)

Feature that have high correlation are removed, prominent features that are correlated are in various pairs.The feature Adj.Close and close are removed from the list of features that are used in model building.

Final feature list is a reduced list of 13 features.

Fig NN:Features for modelling

![Graphical user interface

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNpbmdoIFJhamVldiBLdW1hciAoNVkpAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAM0OQAAkpIAAgAAAAM0OQAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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PNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAO81/X9KPNf1/Sm0UAFXru5aC9niijgCRyMqgwIeAcdSKo1Y1H/AJCd1/12f+ZoAmtLlp72CKWOApJIqsBAg4Jx1AqjVjTv+Qna/wDXZP5iq9ABRRRQAqjLAeprpPGvhmLQPiBeeH9H+0XKRSRxwCUhpHLopxwACctjpXNqcMD6GvQfEPirw1qHj5vGGm3WrC8S4huYrGfTohGWjCDaZROSAdvXYevSr00v8/w/4Ine2hQufhbr1s8Kefps7tcx2lwlveLIbKWRtqLMF+5k8Z5Ge9U4/h74glt7eYWqhLjVTpKZbnzwcHP+zkEZ9jW5qfjHw/ZWHiCTwu+qPfeILmOd/tcaRrZBZfNwGViXbd0OBx75roZPjVpw1u6ng025WyaxL28BVfk1De0nnH5vu7pG564xxWd3a7X9aP8AzXzRVl0/r+tH6JnkV7aPYahcWcrI8lvK0TNGcqSpwSD3HFQUEkkknJPUmimr21E7X0CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAqzp1hNqeoRWlvjfIeWY4VAOSxPYAZJ+lVq0dJ1g6Ul0gs7e5W6QRv528ELnJAKMpGcDPriqja+oiPWdNOka1dae0olNtIYy4GA2O+KpVqeJdUg1nxFeX9pB5EU0hZVOcn3PJ5+hxWXURvbUb30CiiimBr+FtKtta8S2thfSSRW8u8u8RG4AIW4yD6Vcm8LCzg1z7VIzvYRxSW0kZGyZHcAP05BU54NUfDWqQ6N4ggvrpZHijWQERgFvmRlHUjua0bbxXH/whN3o17C8lyVRLW4XHEYkDlG5zgEHHXqRVaXVw6mbJ4dv4ptRidU3acyrP8/QswUY9eTV+TwPqcRm8y505fs8my5JvE/0fnAL88A9up9qv33iTRZF1m4tvtzXOrNE5jeFAkJVwzDdvJbocHA7VQvPEVpcDxNsjmH9rTpJBlR8oEpc7ueOD2zU9FfcO5XHhPURfXFvM1tAluqNJcyzqsOHGUIfvuHTH9KD4T1GKG8lujbWyWb+XIZp1Xc23cAv94kdMda3k8bWjRzWyvdWiSQWyrcLbxzMrxJsYFGOCpycHINZGseIYdR024tw91NJJfJOss6IpKLFs5C8A+w4x3qlbmt/W4l0C58JXJ1W+hi8qytrWUQmS9ukA3kZCbsAMT14HHesO8tJ7C8ltLyMxTwsUdD2IrqdU8R6Rrsl/Defbba3mvvtkEkcSu3KBWVlLgDoMEE1y97JBLfTPZxvHAzny0kbcwXtk9zUK+gyCiiimAUUUUAFFFFAD4YxNPHGZEjDsFLucKuT1PtWlruix6P8AYTDfJex3dv56yJGyKPmZcDdyfu9SB9Kyq6WRLfxHceHdNtrkI0dn5M8jIcQkO7EnOMgKc8U+n9eYurv2/wAhtr4VhnjtIZNRaPUby1a6gtxBlCoBKhn3cEhSfuntUGj+GJdU0TUdTecW8NnEzoCuTOy4JUcjAAIye2R61sWmq6SlxpmryagqS6dYG2azMbl5HVXVSpA27TuBySMU7S/FmjjTprW805oFi0x7aILcMRKxIJGAvyljklvb6Un1/ruNdL/1sZsfhSJ4Yof7QYanNZfbY7XyPkZNpYL5m7O4qM4247Zrm67HSvFEdlopmu5rSe8jtntbWNbYmdVIKjdIQFCgHPGT0HArjqH8X9ef6WDoFFFFABRRRQAUUUUAFdFpvheC8h09LnUjb3mphzawiDepAJUb23DbuYEDANc7XY6TqWlZ0G/u79beXR1ZZbYxuXlw7OmwgEclsHJGMU9LCOOIKsQeoODRSu2+Rm6ZOaSkU7X0CiiigQUUUUAFFFFAGzomgxaxBdO2ow28kEMsqwbGZ5Nibj7Adsk/gar6LpQ1a6mWSf7PBbwPcTyhN5VF9FyMnJAxkdan8NX9tp9/dSXknlpJY3ESnaTlmjIUcepNTaYkujRWGpJe28QvzLDJHcRF08oYB3gAkqSSOB1Wn1+X46i6fP8ADT/gj/8AhFGuL6wXTrsTWl9C0yXM0fl+WqZ8zcoLYK47E54x1qFPDv2rxCdNsriTYiGSWe6tzD5agZZimScY6dzkcV0I8XWUesW1vbzrb2sNhNaLeW8BjEckmT5ioPmABwP7x5PWlh8TWtrLaW0usNcXIsLi2k1VFkPlM7bkwSA5C464/i46Uv8Ag/rb9B/1+RxuqWkVjqElvBJPIqY+aeDyWz/u5OKqV0HifUYby30y2W+/tK5tIWSe8w2HJckKC4DEKO5HeufoBhRRRQAUUUUAFWdOtYr3UIre4uo7SJyd88nRABkn3PHA7mq1WtMSyl1GJNUmkgtWJDyxruKccHHcZxn2zTQjW/4RYXg059GvGuIr+WSJWuYhCYymCxIDN8uDnIPrxVW90i2ttZSyS/ZIyuXubu2aFR1OQvzMQQODjJz0rqIvFNra3mkPqGqLqF1btOj31vEwEEUibVxuVSxBJbp7c1ieItSin0XT7F9U/te7gllke6+fCq23CAuAx6E9OM0v6/r+vvGZ2v6Suias1klyLpRHHIJQhTcHQN0P1rNrY8U39tqOtCezk8yL7NAm7aR8yxKpHPuDWPQHReiCiiigAooooAKnsbUXt/BbNPFbiVwhlmbaiAnqT6CoKltY4pryKO5nFvCzgPMVLbFzycDk49Ka3E9jU1DRbOHRzqWmahJdwpc/ZnEtv5R3bSwZfmbIIB9D7VatfCsM8dpDJqLR6jeWrXUFuIMoVAJUM+7gkKT909qvXdnZa1e2WkaRrNkmnxOVijSObf0y80m6NVLYGTzwBgdKfaarpKXGmavJqCpLp1gbZrMxuXkdVdVKkDbtO4HJIxUvZ2/rT/MfX+u5lWnh2zvbfZBq2+/+xtdmFIMxKFBYo0m7hsD+7jPGaB4fs4vD9rqV9fXcbXMbOqQ2PmKuHKjc+8YyV9K0dI1LTtM0mVBq++xubRxc6bJC3mPOVx8rBdoXIUg7s4HSn6FrFpp8FrNNr8zWkVtJHPpMvmN5jMGG1QBs2nIOScinLrb+t/8AgAun9djjKKKKACiiigAooooAuaVYRajfLBPew2SHrJKrNnkDACgknn/69SX+lfYvEc+k/aIz5Nybfz5PkXhtu4+g7+1VbORYr6CSQ4VJFZj6AGt3UrW213Wte1WK9SKzjufMSR0bDiSXA469CWxjOAeKfb+uwuj+X6jZ/Ddk9rPNperrcC2uo7aZ54RDH85IDq+5gVyDyccc0268OWpsbmfR9Sa/a1uUt5FNv5YcvkKY2DNuBIPXHrVrWjpjWMGnaTrVn/Z0DhtvlTiWZzgNK+YwMgZwM8AYGT1nvr7TdPNgmj6pZz2GnzpOLdY5lmupARudt0YXPUAbsAevcX9fh/XzAx9e0JNDaOF7mSa5yRKBAViUjqFcn58Hg4AFY9dn4g1y2uNJ1SM6y2qm+u0mtYmWTNqoLE53gAHB24XIrjKlX6jdugUUUUwCiiigArZ0vR9Pu7eB7/Vfs0lzceRFDDCJnHT5nG9dq5OB1J544rGro/Db6bY2k1++pWtvqytstkuYpWWEY5l+RGBbsB26+lNW6iZmPYW1lrF1ZarcyxC3d4zJbQiXcytjoWXjrzn8K2D4Us2EEsepziBrJ76Yy2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nr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKAJ/PX0NHnr6GoKKACiiigYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/9k=)

Top models are chosen from the leatherboard on the basis on MAPE,also models with significant difference in validation and test error are excluded from use as this is an indicator of model overfitting.Top models on the leaderboard that have similar MAPE errors for validation and test are Eureqa regressor,XGBoost,LGBM and Elastic net.Their MAPE are in the range of one to two percent whose details will be discussed in Results and conclusion section.Feature importance for the Eureqa model provides better understanding of model dynamics.

A screenshot of a computer

Description automatically generated with medium confidence

Through similar method five top models were analysed for each of the ten stocks.Out of which top model for each stock was selected to create an optimum portfolio on the basis of their future return and compared with baseline MVO method in next section.

**4.3 Summary**

Portfolio optimisation was implemented key steps involving data downloading from Yahoo Finance for ten representative stocks.Data used in ML models was enriched through feature engineering which led to data smoothening and extracting more information from raw data.Past four and half years data was used for training the supervised ML models,remaining 2 months each data was used for validation and testing,Top five models developed in datarp

CHAPTER 1

INTRODUCTION