Stock Price Prediction

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Introduction

1.1 Problem Statement

Given the price of a stock in last few years, the project aims to predict a signal that indicates whether buying the stock will be profitable in future or not.

1.2 Scope of the project

- **Data collection and preprocessing** Gathering historical stock price data and preprocessing it to ensure it is clean and ready for analysis.

- **Feature Engineering** Deriving new features from the existing ones to gain deeper insights into the data and improve model performance.

- **Model Selection and evaluation** Training and evaluating multiple state-of-the-art machine learning models to determine which one performs best on the given dataset.

- **Performance evaluation** Continuously monitoring the model's performance and making necessary adjustments to maintain its accuracy over time.

Proposed work

2.1 Proposed Model

Given the price of a stock in last few years, the project aims to predict a signal that indicates whether buying the stock will be profitable in future or not.