

TIME SERIES BASED RISK ANALYSIS APP FOR CRYPTOCURRENCY TRADING

Group 5



GROUP 5 MEMBERS

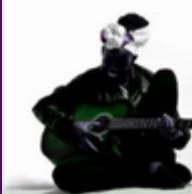
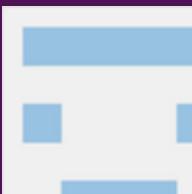
1	Matthews Trevor	 Vetre23 - Overview Vetre23 has 69 repositories available. Follow their code on GitHub. GitHub
2	Stephen Waweru	 stendewa - Overview Data Scientist with experience in several projects and the Logistics industry - stendewa GitHub
3	Carol Mundia	 WairimuMundia - Overview WairimuMundia has 14 repositories available. Follow their code on GitHub. GitHub
4	Lilian Muli	 mwikali24 - Overview mwikali24 has 147 repositories available. Follow their code on GitHub. GitHub
5	Peter Maina	 Mr-PeterMaina - Overview Mr-PeterMaina has 244 repositories available. Follow their code on GitHub. GitHub

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The background features three large, semi-transparent circles with a gradient from dark purple to bright blue. One circle is positioned at the top left, another at the bottom left, and a third, larger one is centered on the right side.

INTRODUCTION

- As the cryptocurrency market grows, investors face increasing challenges in making informed trading decisions.
- Our proposed application, CryptoRisk Analyzer.

BUSINESS PROBLEM

- Analyze and predict trends in cryprocurrency markets using historical data.
- Create a web application to show the predictions of the cryptocurrency prices.

PROJECT BENEFITS

- Informed Decision-Making.
- Real-Time Updates
- Risk Management

TARGET AUDIENCE

1. Individual investors .
2. Financial advisors and analysts.
3. Educational platforms .

PROJECT OBJECTIVES



Time Series Analysis

**Machine Learning
Integration**

**Risk Assessment
Metrics**

**Cryptocurrency
Comparison**

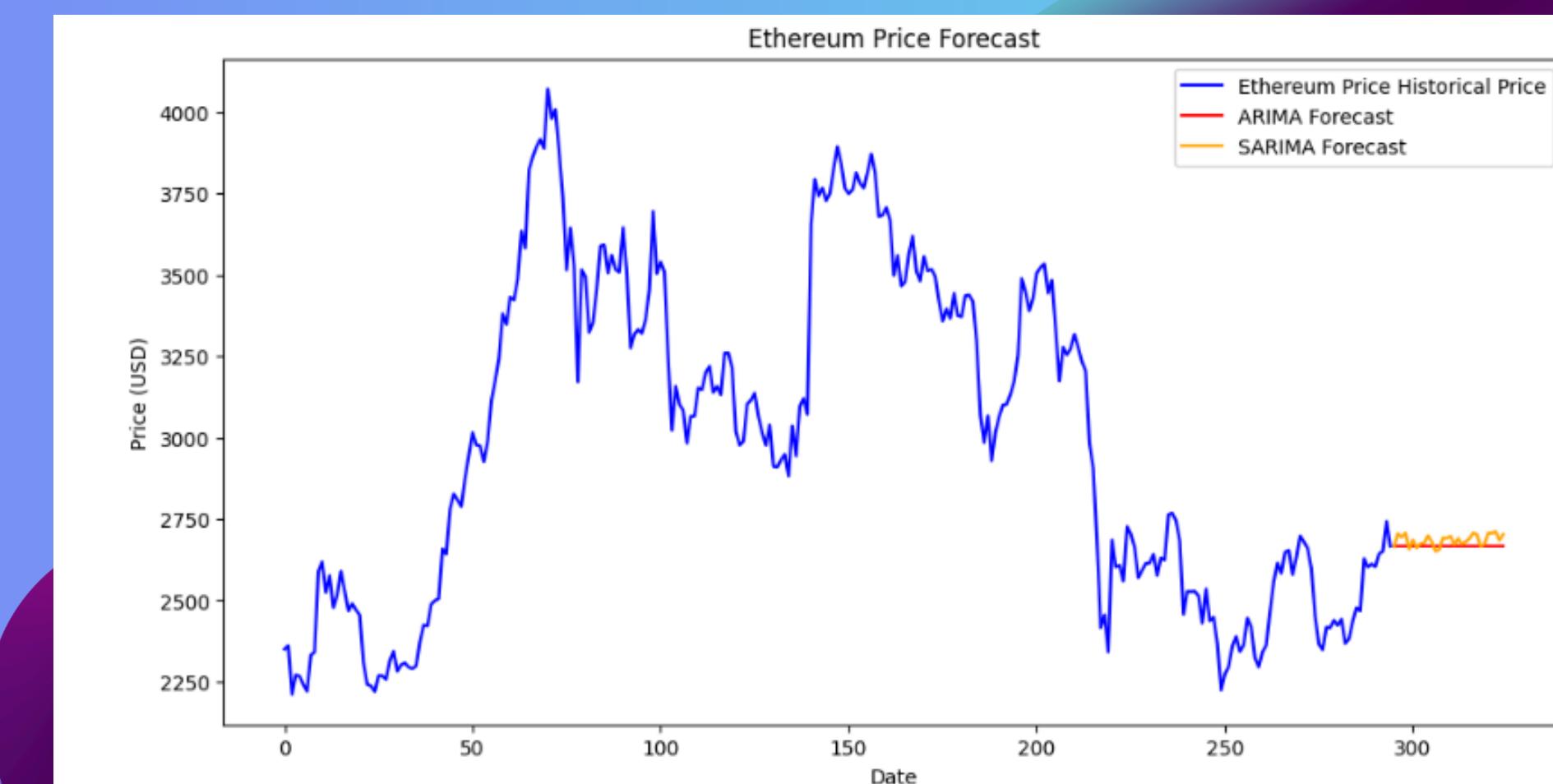
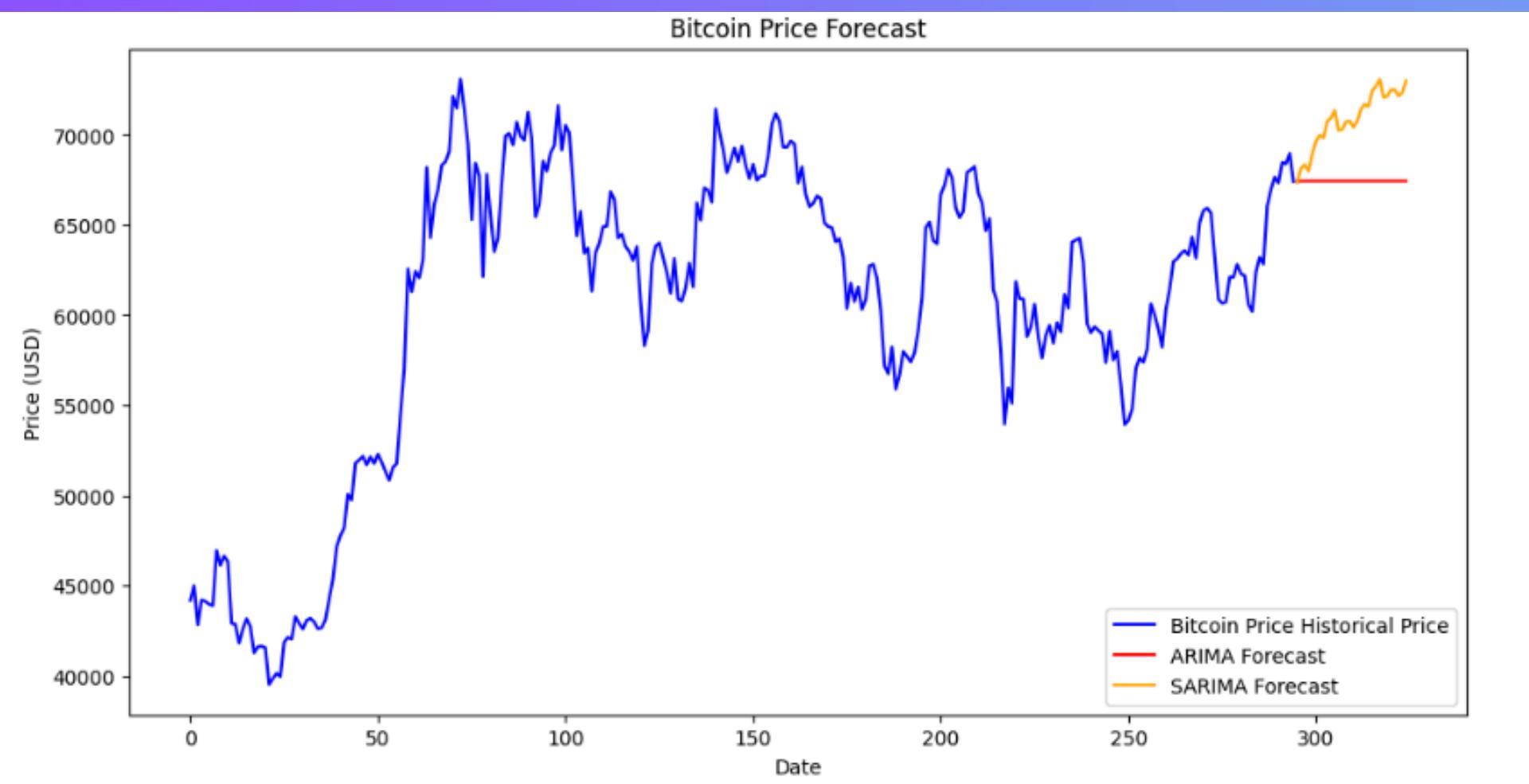
**User-Friendly
Interface**

DATA MODELLING

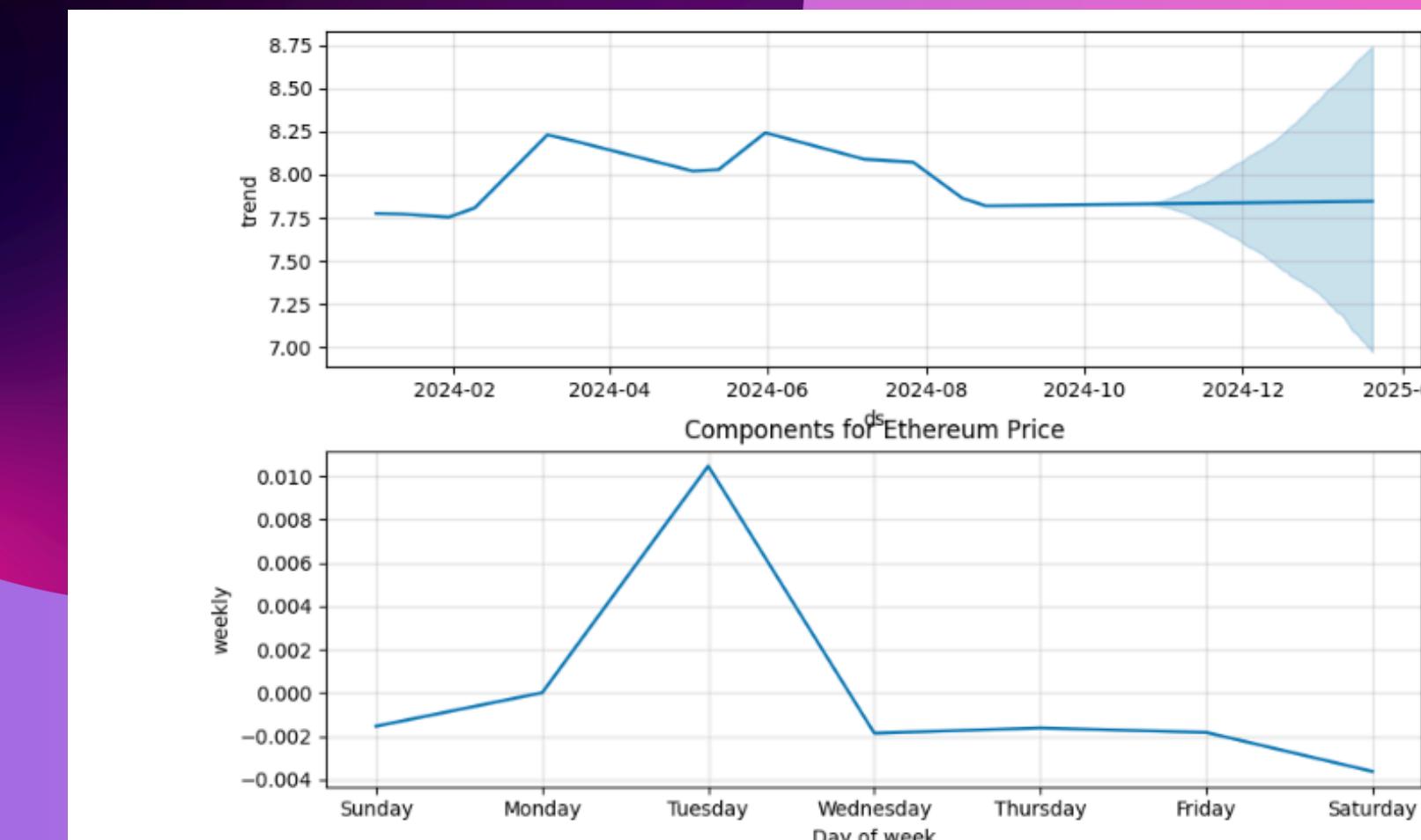
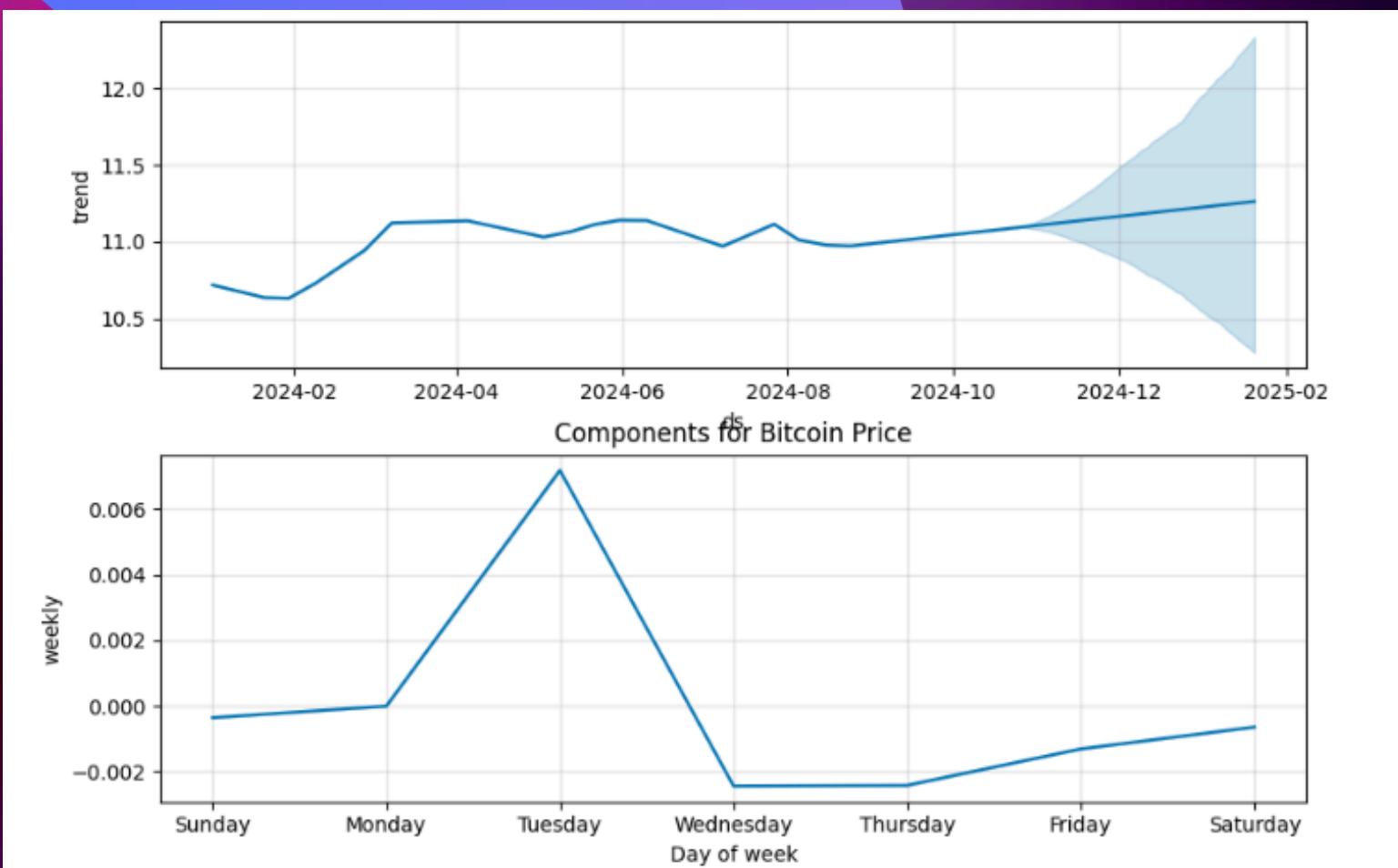
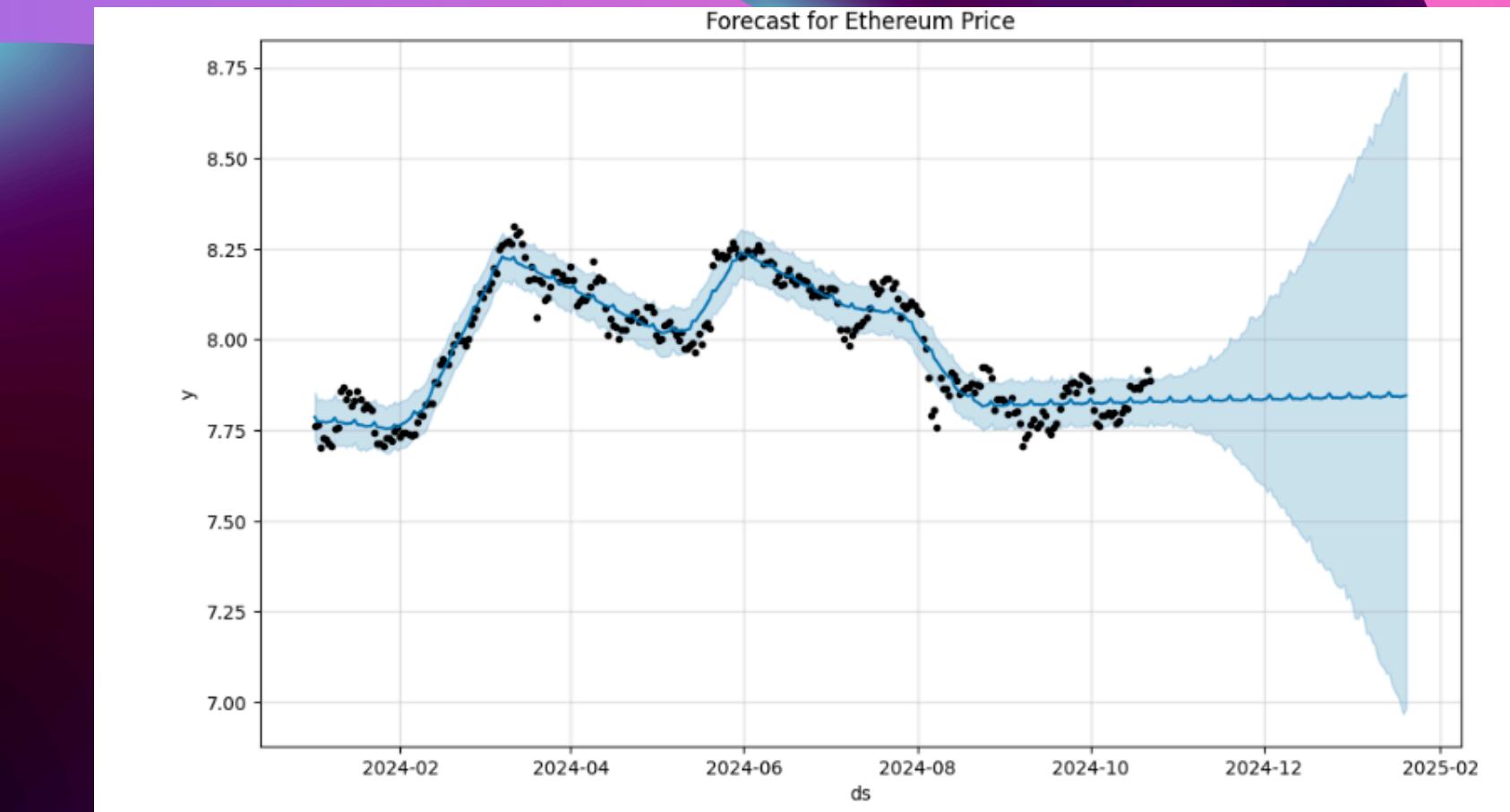
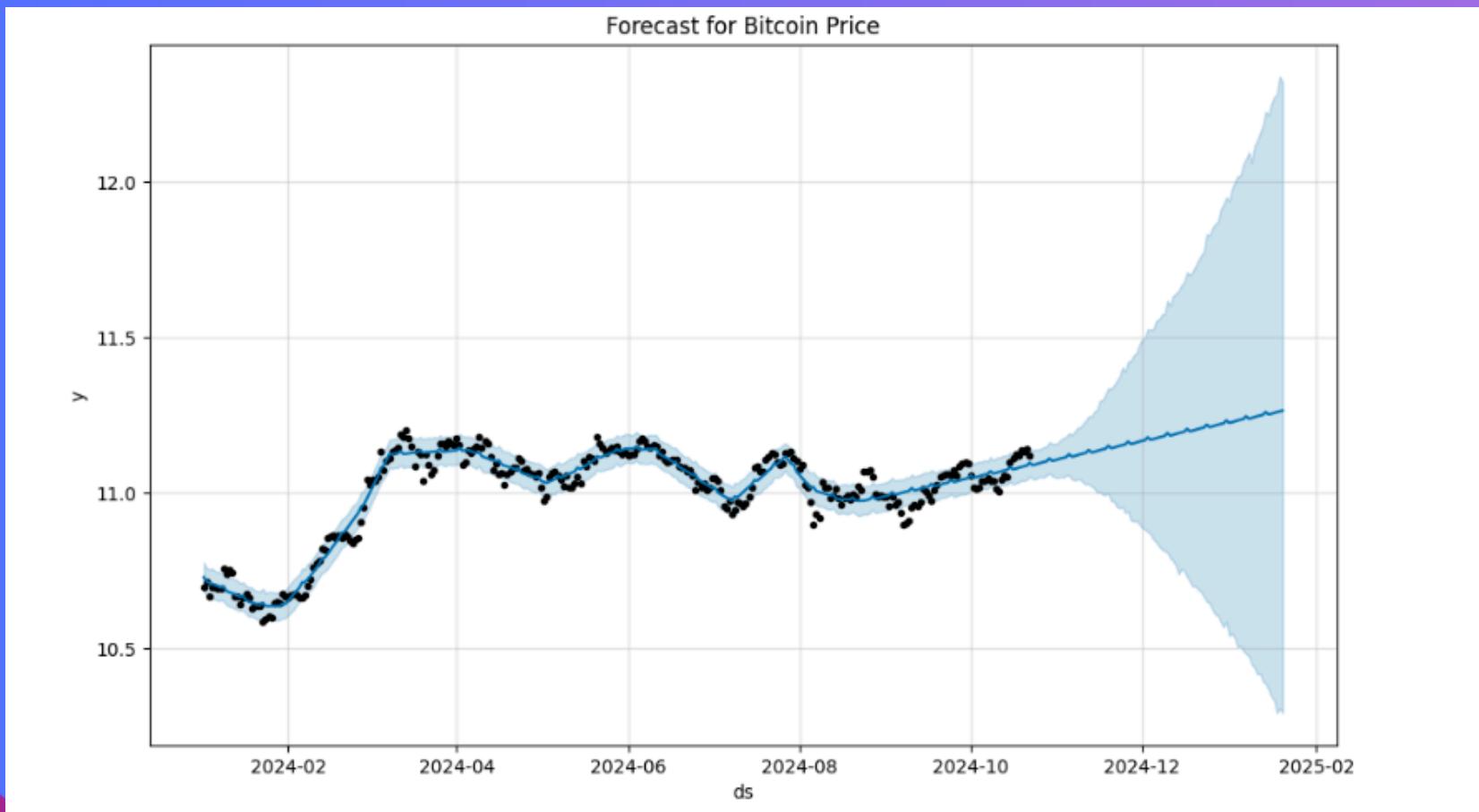
The models used are:

- * ARIMA ➤ Auto Regressive Integrated Moving Average
- * SARIMA ➤ Seasonal Auto Regressive Integrated Moving Average
- * Prophet Time Series Model

ARIMA AND SARIMA MODELS



PROPHET TIME SERIES MODEL



CONCLUSION

We concluded on
the prophet Time
Series Model



PLEASE HOLD AS WE
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