<h1>Slide 1: Title Slide</h1>

<h2>Title: Stock Price Prediction in the Presence of High Volatility, Missing Data, and Extreme Events</h2>

<h3>Subtitle: Evaluating the Performance of Different Prediction Models and Data Preparation Techniques</h3>

<p>Your Name</p>

<p>Date</p>

<h1>Slide 2: Introduction</h1>

<p>Briefly introduce the topic and its relevance</p>

<p>State the research questions</p>

<h1>Slide 3: Data Preparation</h1>

<p>Explain the process of preparing the four versions of the dataset for each time series</p>

<ul>

<li>Original data with missing values removed and outliers not identified</li>

<li>Original data with missing values removed and outliers identified</li>

<li>Imputed data with outliers not identified</li>

<li>Imputed data with outliers identified</li>

</ul>

<h1>Slide 4: Data Resampling</h1>

<p>Describe the rationale behind resampling the time series to daily frequency</p>

<h1>Slide 5: Benchmark Model</h1>

<p>Explain the random walk simulation as a benchmark for comparison</p>

<h1>Slide 6: Hypotheses</h1>

<p>List the different hypotheses to be tested</p>

<ul>

<li>H1: ts1 can predict ts1</li>

<li>H2: ts2 can predict ts2</li>

<li>H3: ts1 can predict ts2</li>

<li>H4: ts2 can predict ts1</li>

</ul>

<h1>Slide 7: Prediction Models</h1>

<p>Introduce the chosen prediction models (e.g., ARIMA, GARCH, LSTM, etc.)</p>

<p>Mention that these models will be applied to test the hypotheses on the four versions of the dataset</p>

<h1>Slide 8: Model Evaluation</h1>

<p>Describe the evaluation metrics (MSE, MAE, R-squared)</p>

<p>Explain the process of comparing the performance of different models on different dataset versions</p>

<p>Discuss the investigation of the impact of data imputation techniques and outlier detection techniques</p>

<h1>Slide 9: {Insert Results and Graphs}</h1>

<p>Show the results of the experiments, including graphs and tables</p>

<h1>Slide 10: Results and Conclusions</h1>

<p>Summarize the findings</p>

<p>Highlight the most effective techniques for handling missing data, outliers, and challenges of stock price prediction in the presence of high volatility and extreme events</p>

<p>Provide insights into the relationships between the two time series and their predictability</p>

<p>Discuss the limitations of the study and potential avenues for future research</p>

<h1>Slide 11: Acknowledgments and References</h1>

<p>Acknowledge any assistance or resources used in the research</p>

<p>List any references</p>

<h1>Slide 12: Questions</h1>

<p>Open the floor for questions from the audience</p>