1. **Introduction**

* **What is time series forecasting?**
  + Definition and significance of time series forecasting
  + Applications in various fields (economics, climatology, agriculture, etc.)
* **Our Objective**
  + Description of the thesis objective
  + Presentation and justification of the crops to be analyzed

1. **History and State of the Art**

* **History of time series forecasting methods**
  + Classical methods (ARIMA, ETS, etc.)
  + Introduction of neural networks (RNN, LSTM)
* **Evolution towards Transformers**
  + Transition from RNN/LSTM to Transformers
  + Advantages and challenges of Transformers compared to previous methods
* **Initial skepticism about Transformers**
  + Initial perspectives and skepticism in the scientific community
* **State of the Art of Transformers**
  + Recent advancements and current applications of Transformers
  + Examples of the latest Transformer models used in time series

1. **Materials and Methods**

* **Libraries Used**
  + Description of the tools and libraries employed (TensorFlow, PyTorch, etc.)
* **Dataset**
  + Details of the data used for the crops
  + Data preprocessing process

1. **Transformers**

* **What is a Transformer?**
  + Origin and basic concept of Transformers
  + Fundamental differences from other neural models
* **Basic Structure of a Transformer**
  + Attention mechanism
  + Encoder and Decoder
  + Examples of applications in other fields (NLP, computer vision)

1. **Transformers for Time Series**

* **Adapting Transformers to Time Series**
  + Main modifications and adaptations needed
  + Advantages of using Transformers in time series
* **Practical Implementation**
  + Pipeline
  + Description of the architecture used in the thesis

1. **Informers**

* **Introduction to Informers**
  + Origin and motivation for creating Informers
  + Key differences between Informers and traditional Transformers
* **ProbSparse Attention**
  + Detailed explanation of the sparse attention mechanism
  + Comparison with the traditional attention mechanism
* **Distilling**
  + Concept of distilling in Informers
  + Benefits and results obtained
* **Practical Implementation**
  + Pipeline
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1. **Autoformers**

* **Decomposition Layer**
  + Explanation of the decomposition layer in Autoformers
  + How decomposition improves forecasting accuracy
* **Attention (Autocorrelation) Mechanism**
  + Description of the autocorrelation-based attention mechanism
  + Advantages over traditional attention mechanisms

1. **Results**

* **Model Evaluation**
  + Metrics used to evaluate model performance
  + Comparison between Transformers, Informers, and other models
* **Discussion of Results**
  + Interpretation of the results obtained
  + Error analysis and possible improvements

1. **Conclusions and Future Work**

* **Conclusions**
  + Summary of the most important findings of the thesis
  + Implications of the results obtained
* **Future Work**
  + Possible future research directions
  + Improvements and adaptations that could be implemented

1. **References**

* List of all bibliographic sources and resources used throughout the thesis

1. **Appendices**

* Relevant additional material
* Source codes, diagrams, data tables, etc.