

Conversation with Kaggle Recommendation System

User: Proposed title: Predictive Modeling for Sales Forecasting – An Exploration of Advanced Time Series Methods In the dynamic business world, where unpredictability is the norm, the capacity to anticipate and steer sales patterns is crucial for companies striving not only to stay afloat but to flourish. “Predictive Modeling” sets off on an engaging expedition, decoding the complex world of sales prediction through a comprehensive study of advanced time series techniques. This thesis acts as a guiding light, highlighting the route toward accuracy, flexibility, and strategic insight in the sales field. Leveraging a suite of sophisticated models, such as ARIMA, SARIMA, LSTM, and ETS, this study strives to decipher the complex interplay of trends, cyclical patterns, and inherent structures in chronological data. Its aim is not just to forecast sales numbers with precision, but also to uncover the concealed stories within the time-bound framework of business activities. The impetus behind this study goes further than just numerical forecasts. “Predictive Modeling” aims to instigate a fundamental change, encouraging businesses to utilize complex time series techniques to turn sales prediction into a valuable resource. This capstone project expose is more than just a forecasting instrument; it’s an appeal for businesses to welcome a new period of strategic insight.

Kaggle Recommender Engine: 1. - Dataset Name: rohitsahoo/sales-forecasting - Title: Superstore Sales Dataset - Description: Superstore Sales Dataset by Rohit Sahoo. Predict Sales using Time Series - Author: Rohit Sahoo - Link: <https://www.kaggle.com/datasets/rohitsahoo/sales-forecasting> - Last updated: 11/09/2020 15:40 - Size: 480KB - Usability rating: 1.00 - View count: 289987 - Licence: GPL 2 - Tags: earth and nature, clothing and accessories, business, computer science 2. - Dataset Name: shivan118/big-mart-sales-prediction-datasets - Title: Big Mart Sales Prediction Datasets - Description: Big Mart Sales Prediction Datasets by shivan kumar. Build a predictive model and predict the sales of each product - Author: shivan kumar - Link: <https://www.kaggle.com/datasets/shivan118/big-mart-sales-prediction-datasets> - Last updated: 04/10/2020 04:08 - Size: 327KB - Usability rating: 0.94 - View count: 58168 - Licence: CC0: Public Domain - Tags: arts and entertainment, earth and nature, business, computer science, investing, online communities 3. - Dataset Name: remisharoon/predict-future-sales-translated-dataset - Title: Predict Future Sales - Translated Dataset - Description: Predict Future Sales - Translated Dataset by remisharoon. Predict Future Sales - Translated Dataset - Author: remisharoon - Link: <https://www.kaggle.com/datasets/remisharoon/predict-future-sales-translated-dataset> - Last updated: 04/03/2020 11:30 - Size: 369KB - Usability rating: 0.82 - View count: 11081 - Licence: CC0: Public Domain - Tags: business 4. - Dataset Name: abhishekrp1517/sales-data-for-economic-data-analysis - Title: Sales Data for Economic Data Analysis - Description: Sales Data for Economic Data Analysis by Abhishek Ranjan. A comprehensive view of sales transactions - Author: Abhishek Ranjan - Link: <https://www.kaggle.com/datasets/abhishekrp1517/sales-data-for-economic-data-analysis> - Last updated: 17/03/2023 06:51 - Size: 3MB - Usability rating: 0.88 - View count: 20344 - Licence: Database: Open Database, Contents: Database Contents - Tags: business, economics, exploratory data analysis, data analytics, tabular 5. - Dataset Name: hunter0007/ecommerce-dataset-for-predictive-marketing-2023 - Title: Supermarket dataset for predictive marketing 2023 - Description: Supermarket dataset for predictive marketing 2023 by Rupesh Kumar. Foresee your customers' needs in order to create successful campaigns - Author: Rupesh Kumar - Link: <https://www.kaggle.com/datasets/hunter0007/ecommerce-dataset-for-predictive-marketing-2023> - Last updated: 30/12/2022 14:45 - Size: 15MB - Usability rating: 1.00 - View count: 40861 - Licence: Data files © Original Authors - Tags: intermediate, clustering, k-means, retail and shopping, e-commerce services 6. - Dataset Name: rupakroy/lstm-datasets-multivariate-univariate - Title: Air Pollution Forecasting - LSTM Multivariate - Description: Air Pollution Forecasting - LSTM Multivariate by Rupak Roy/ Bob. Lstm multivariate sample dataset for architecture design and orchestration - Author: Rupak Roy/ Bob - Link: <https://www.kaggle.com/datasets/rupakroy/lstm-datasets-multivariate-univariate> - Last updated: 20/01/2022 13:03 - Size: 444KB - Usability rating: 0.91 - View count: 41834 - Licence:

Database: Open Database, Contents: Database Contents - Tags: earth and nature, computer science, time series analysis, lstm, datetime 7. - Dataset Name: viswajithkn/instacart-predict-shopping-time - Title: Instacart Predict Shopping Time - Description: Instacart Predict Shopping Time by Viswajith. Multivariate Time series analysis anyone? - Author: Viswajith - Link: <https://www.kaggle.com/datasets/viswajithkn/instacart-predict-shopping-time> - Last updated: 29/10/2018 17:24 - Size: 12MB - Usability rating: 0.65 - View count: 8856 - Licence: Unknown - Tags: business 8. - Dataset Name: thedevastator/unlock-your-business-potential-with-the-sales-pi - Title: Sales Data - Adjusted Target and Missing Pipeline - Description: Sales Data - Adjusted Target and Missing Pipeline by The Devastator. From: #WOW2020 Week 16 Dataset - Author: The Devastator - Link: <https://www.kaggle.com/datasets/thedevastator/unlock-your-business-potential-with-the-sales-pi> - Last updated: 03/12/2022 09:39 - Size: 357KB - Usability rating: 0.76 - View count: 1232 - Licence: Other (specified in description) - Tags: business, data visualization, data analytics 9. - Dataset Name: mvsnig/time-series-pam - Title: Time Series Analysis - Description: Time Series Analysis by Marcos Vinícius. Multiple time series datasets - Author: Marcos Vinícius - Link: <https://www.kaggle.com/datasets/mvsnig/time-series-pam> - Last updated: 16/11/2018 17:14 - Size: 59KB - Usability rating: 0.65 - View count: 12212 - Licence: Unknown - Tags: time series analysis, news 10. - Dataset Name: uniabhi/bigmart-sales-data - Title: BigMart Sales Data - Description: BigMart Sales Data by Abhishek Kumar. Bigmart sales prediction Dataset - Author: Abhishek Kumar - Link: <https://www.kaggle.com/datasets/uniabhi/bigmart-sales-data> - Last updated: 07/09/2021 18:30 - Size: 307KB - Usability rating: 0.71 - View count: 18114 - Licence: CC0: Public Domain - Tags: business, computer science, beginner, intermediate, advanced 11. - Dataset Name: arashnic/cinema-ticket - Title: Cinema Tickets - Description: Cinema Tickets by Möbius. Time series analysis and forecasting - Author: Möbius - Link: <https://www.kaggle.com/datasets/arashnic/cinema-ticket> - Last updated: 29/10/2020 12:48 - Size: 3MB - Usability rating: 1.00 - View count: 77122 - Licence: CC BY-NC-SA 4.0 - Tags: arts and entertainment, movies and tv shows, music, marketing, time series analysis, regression 12. - Dataset Name: luisandresgarcia/stock-market-prediction - Title: Stock market prediction - Description: Stock market prediction by Luis Andrés García. Stocks from USA to reach a target of performance in some days - Author: Luis Andrés García - Link: <https://www.kaggle.com/datasets/luisandresgarcia/stock-market-prediction> - Last updated: 17/08/2023 19:34 - Size: 41MB - Usability rating: 0.88 - View count: 21736 - Licence: Attribution-NonCommercial 4.0 International (CC BY-NC 4.0) - Tags: business, finance, investing 13. - Dataset Name: akiwelekar/predictingese - Title: Predicting End Semester Performance - Description: Predicting End Semester Performance by Arvind Kiwelekar. Are 'mid-semster marks' and 'class-room attendance' good predictors? - Author: Arvind Kiwelekar - Link: <https://www.kaggle.com/datasets/akiwelekar/predictingese> - Last updated: 10/10/2020 08:32 - Size: 1KB - Usability rating: 0.59 - View count: 10598 - Licence: Unknown - Tags: arts and entertainment, earth and nature, education, regression, primary and secondary schools 14. - Dataset Name: theforcecoder/wind-power-forecasting - Title: Wind Power Forecasting - Description: Wind Power Forecasting by Sathvik Bhaskarpandit. Two-and-half years data for a windmill - Author: Sathvik Bhaskarpandit - Link: <https://www.kaggle.com/datasets/theforcecoder/wind-power-forecasting> - Last updated: 24/07/2020 14:55 - Size: 8MB - Usability rating: 0.91 - View count: 72961 - Licence: CC0: Public Domain - Tags: renewable energy, time series analysis 15. - Dataset Name: prognosticshse/preventive-to-predictive-maintenance - Title: Preventive to Predictive Maintenance - Description: Preventive to Predictive Maintenance by Prognostics @ HSE. Extensive data set for machine learning on remaining useful life prognosis (PHM) - Author: Prognostics @ HSE - Link: <https://www.kaggle.com/datasets/prognosticshse/preventive-to-predictive-maintenance> - Last updated: 14/02/2022 10:46 - Size: 3MB - Usability rating: 1.00 - View count: 20802 - Licence: Attribution 4.0 International (CC BY 4.0) - Tags: universities and colleges, science and technology, computer science, time series analysis, regression I hope this was a helpful response. Now you can talk with the recommended data.

User: Can you summarise it for me ?

Kaggle Recommender Engine: This article proposes an exploration of predictive modeling for sales forecasting using advanced time series methods. It discusses the need for accuracy, flexibility, and strategic insight in predicting sales patterns, which are crucial for business success. The study aims to understand trends, cyclical patterns, and inherent structures in chronological data using sophisticated models like ARIMA, SARIMA, LSTM, and ETS. The objective is not just accurate sales forecasts, but also to uncover hidden patterns in business activities. The article encourages businesses to use these complex time series techniques and turn sales prediction into a valuable resource. It suggests a shift from mere numerical forecasts to a new era of strategic insight.