

DATA SCIENCE: MACHINE LEARNING PROJECT

Data Science Open Internship, INeuron.Al



Wireframe Report

On

BACKORDER PREDICTION

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Main Technology: Machine Learning

Domain: E-commerce

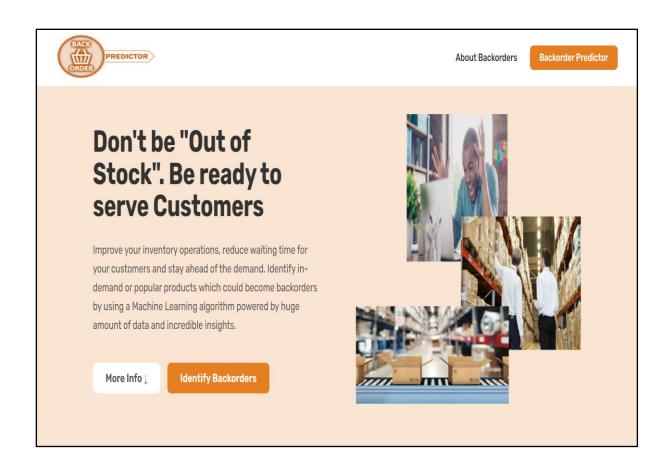
Project Start Date: 14th August 2021



1. HOME PAGE

The first page, also the landing page, is the home page of the user interface designed for the deployment of the project.

The page also contains a navigation pane which allows the user to scroll to the different sections on the webpage.





2. ABOUT BACKORDERS SECTION

The 1st section on the page gives a brief introduction to the viewers and users about backorders and its significance.

It has also listed the main risks or the significance of backorders for an E-commerce setup.

About Backorders

A backorder refers to an order containing an item that appears out of stock when a customer visits an online store's product page but is promised to ship once the item is available with the retailer or seller. It is a process to allow customers to shop products despite limited stock available in hand. When an order contains multiple items, and any object is a backordered item, the latter can't be packed and shipped given the lack of inventory.

LOOKING INTO BACKORDERS IS IMPORTANT AS THEY CAN LEAD TO

Inventory & Warehousing Issues

A high sales volumes followed by a wave of cancellations can mean companies have to deal with excess inventory for their space. If products are perishable or easily damaged, they could get damaged or spoiled. Backorders







3. BACKORDER PREDICTION SECTION

The 2nd Section on the web page contains a form in which the user needs to fill the inputs with respect to the product they want to check for possible backorder.

The user needs to provide a total of 10 inputs with respect to the concerned product such as the Sales of the product in past 6 months, forecasted sales for the next 6 months, lead time, quantity of product overdue, any deck or product part approval risk involved, etc.

ANSWER THE FOLLOWING QUESTIONS RELATED TO YOUR CONCERNED PRODUCT	
What is the forecasted sales of the product for next 6 months *	
Enter answer in amount in \$	
What was the sales of the product in the last 6 months *	
Enter answer in amount in \$	
What was the product performance against forecasted quantity to sell, on average, in the last 6 months *	
Enter answer in %	
What is the present national level of inventory for the product *	
Enter answer in quantity	



4. PREDICTION RESULT PAGE

On providing all required inputs and submitting the form, the user is redirected to another webpage.

On processing the inputs provided by the user and passing it to the Machine Learning model running at the backend, an output for the product being a backorder or not is provided.

The output generated by the model is in form of 0 and 1. If the output is 0, the result displayed to user is "Not a backorder" and if 1, the output displayed is "A Backorder".

