

Soham Dey Sarkar

Student/Developer

sohamds100@gmail.com

9830166502

SKILLS

Back-end

Java, Python, Flask, Spring

Front-end

HTML5, CSS3, Javascript

Data Analytics

SQL, Tableau, R, Excel

EDUCATION

Bachelor in Computer Applications

Aug 2020 - May 2023

Institute of Engineering and Management

PUBLICATIONS AND PRESENTATIONS

Comparative Analysis of Performance in FP-Growth and Apr...

2023

<https://www.ingentaconnect.com/contentone/smart/ajec/2023/00000004/00000001/art00003>

This research paper presents a comparative analysis of two popular data mining algorithms, Apriori and FP Growth, using the WEKA tool. The study aims to determine which algorithm is more efficient in terms of execution time and database scan parameters. The results indicate that FP Growth outperforms Apriori in terms of execution time and number of database scans required to generate frequent item sets. The study also examines the impact of various parameters on the performance of both algorithms, such as support threshold and database size. The findings of this study suggest that FP Growth is a more effective algorithm for frequent itemset mining, especially for larger databases, and can be a useful tool for data analysts and researchers working in this field.

Analysis of Deteriorating Items in Inventory Model

2022

<https://sohamds.co/analysis-of-deteriorating-items-in-inventory-model>

In this paper, a rigorous and overall analysis is done based on a systematic change in the inventory model of deteriorating items. The process of production always targets to be better quality with the advent of new and latest techniques to stand up in this competitive era. For a few decades, researchers are developing the EOQ (economic order quantity) model through various functions. But still, due to the various risk factors, most of the manufacturing processes ends with some imperfection. So, the produced items are not always perfect. The situation seems to be more receptive while dealing with items of deteriorating quality. Thus, a process of inspection is needed for screening good quality items. So, the objective of investigation in this paper is focused on demand function, inventory model, deterioration rate, EOQ, supply chain, inflation. Some of the further possible scopes of this research are also mentioned at the end of the paper. (Inventory Management)

TRAININGS AND CERTIFICATIONS

Google Data Analytics Certificate

2023

https://www.credly.com/badges/843abead4-39f4-447c-be61-ef316b427b6d/linked_in_profile
Competent in tools and platforms including spreadsheets, SQL, Tableau, and R. They know how to prepare, process, analyze, and share data for thoughtful action. (SQL, Tableau, R, Excel)

Hackerrank Java (Basic) Certificate

2022

<https://www.hackerrank.com/certificates/7819a20a8e0e>

It covers basic topics in Java language such as classes, data structures, inheritance, exception handling, etc. This certificate was acquired through the Hackerrank Certification programme. (Java)

SIDE PROJECTS

Todo application

2022

<https://github.com/sohamds1/spring-boot-todo-app>

This is a ToDo Application created with Spring Boot with H2 Database and Spring Security Integration. The Frontend is done on Angular. (Java, SpringBoot, Angular, H2)

Weekly rides predictor of an Uber rental car.

2021

<https://github.com/sohamds1/uber-rides-weekly-predictor>

This project is a Machine Learning model created by me and Shounok Das on a dataset which predicts weekly uber rides. The project has been created on Flask framework and then later on been used to deploy on Heroku. The requirements for the project has been added in the requirements.txt file in the uber-rides project. (Python, CSS, HTML, Flask)