



Classroom Schedule Automation Tool

The background:

A BEE learnership company grappled with scheduling inefficiencies, prompting the imperative to streamline operations and allocate resources more effectively.

The problem:

COGO Data was engaged to automate the process of assigning learners to facilitators and classrooms based on their qualifications. The mandate emphasized the necessity for a user-friendly platform with adjustable parameters.

The solution:

In response, COGO Data developed a sophisticated algorithm to allocate learners to groups and assign them to appropriate classrooms, considering various factors such as qualifications and classroom capacities. This algorithm was seamlessly integrated into a Shiny dashboard, providing an intuitive interface for parameter adjustment and scheduling visualization.

The result:

The implementation of this solution significantly reduced scheduling time, empowering the client to efficiently manage resources and adapt to evolving requirements with ease.

Scheduling dashboard

Inputs

Choose Students File:

Browse...

No file selected

Classroom Capacity:

20

Select a qualification:

Project Management 4

Select required sessions for qualification:

4

Full day sessions:

Date range (excluding weekends):

2024-04-05

to

2024-04-17

Exclude Fridays:

Run scheduler