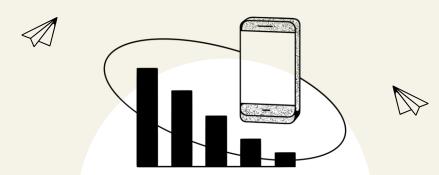


## Automated Capacity Planning

Demonstration and Walk through





**Contents** 

01

02

03

Problem at hand

Long manual process

Quick Demonstration

Video

Walk through

Project walk through – the code

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05

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*Improvements* 

My ideas and further automation

Maintenance

Keeping it working

**Questions** 

Feel free to interrupt with quick questions at any point





## **Problem at** hand

Long manual process











#### 1.5 Months

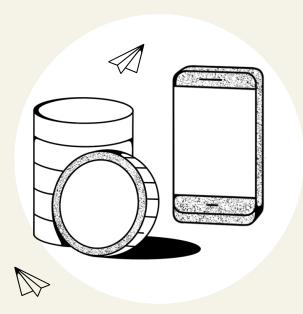
To develop

## **Updating**

Takes a while

### Managing

Many things to change that applies to a few things





#### 1.5 Weeks

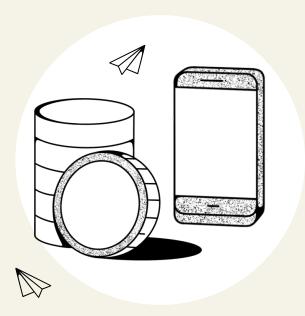
To develop

## **Updating**

Easy and instant

### Managing

A few things to change that applies to all





#### How to use



Move files

Drop the EDI and R461 In CSV format



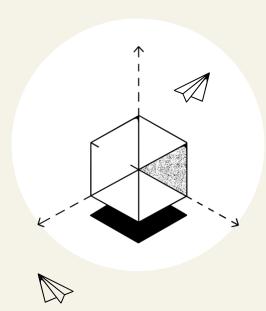
Let it run

Python script.py



Graphs ready





02

# Quick Demonstration

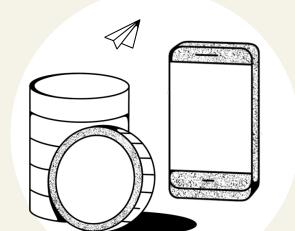
Video





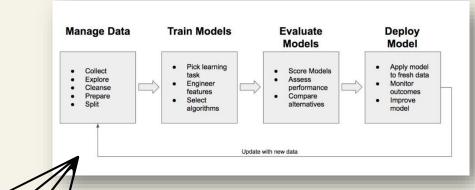
## 33.91 s

#### Run time



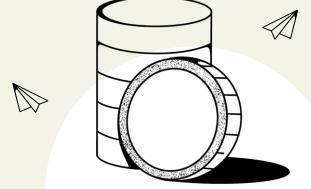


The brains:
A ML model to **predict** EDI changes based on historical data (changes)





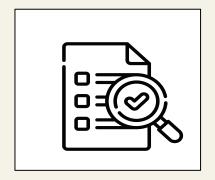




## Walk through

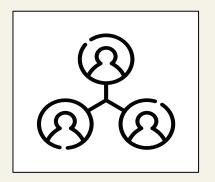
Project walk through – the code





## Cleaning





## Search Algorithm

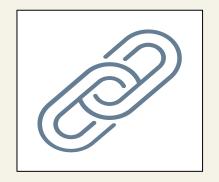
Main Issue: Inconsistent naming!

But I work around this









## Combine the matches







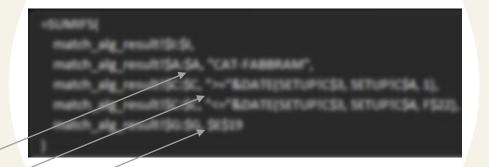
## **Match Algorithm Result**





#### **Use SumIFs**

to add up load hours by customer



Customer

Month

Date Range











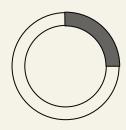
## Improvements

Future changes by the team



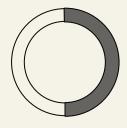


#### **Possible Improvements**



Better search algorithm

Improving speed from 34 second to maybe instant is possible



EDI and R461 importing

Automated loading instead of keeping it in the input folder



Fully automate to just peek at the graphs



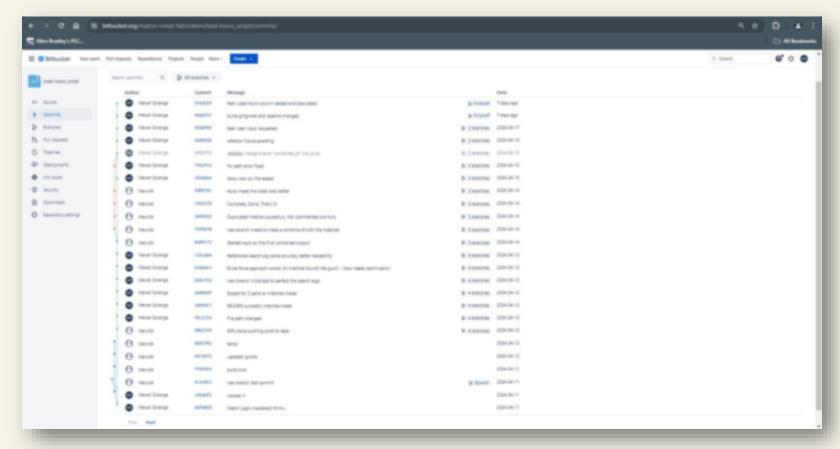




## Maintenance

Keep it working







#### Resources

- Full Demo Video
- Work Instruction how to set it up from nothing
- Common Trouble shoot erros