Create a new folder on your computer
Navigate to the Springenobaseprogress branch on github
https://github.com/nansikom/Springenobaseprogress
Run git clone git@github.com:nansikom/Springenobaseprogress.git
use your credentials.
cd to the Springenobaseprogress
First you will need to have docker running
docker run -d --name pg-plv8 -p 5434:5432 sibedge/postgres-plv8:latest

docker exec -it pg-plv8 psql -U postgres

Next start up the psql postgres server
psql -h localhost -p 5434 -U postgres -d postgres
Password for user postgres: postgres
Create the plv8 extension if it doesn't exist.
CREATE EXTENSION IF NOT EXISTS plv8;
run npm install.
run node gemini.js
run node server.js
Go to indie.html
Go to code editing where you will find the monaco editor
Here you can write any javascript function against your dataset assuming you know javascript if you don't the gemini code editor can help you write the javascript code.
Use the upload dataset button to add your clean dataset it works for json and csv
Write your code functions some example functions that work for the sales_data.json

```
function getAverageQuantityPerSale(dataset) {
  const totalQuantity = dataset.reduce((sum, record) => sum +
record.quantity, 0);
  const average = totalQuantity / dataset.length;
  return average;
}
return getAverageQuantityPerSale(dataset);

// Example: Calculate total price
function filterSalesByDateRange(dataset, startDate, endDate) {
  const start = new Date(startDate);
  const end = new Date(endDate);

  return dataset.filter(record => {
    const saleDate = new Date(record.sale_date);
```

```
    return saleDate >= start && saleDate <= end;
  });
}
return filterSalesByDateRange(dataset, "2025-01-10", "2025-01-18");
```

C

Click run code purple button to get your result.
There additional functionalities we added such as running linear regression, clustering and averaging, anomaly detection of values these work directly in the predictions.html where you select the column you want using the arrow down button to run the function on and press the button to run linear regression, clustering, anomaly detection of dataset.These can also be run from the monaco editor if you prefer but be careful on how to return the values as its set out to be outside the function since the run_js function in the backend expects it like that.