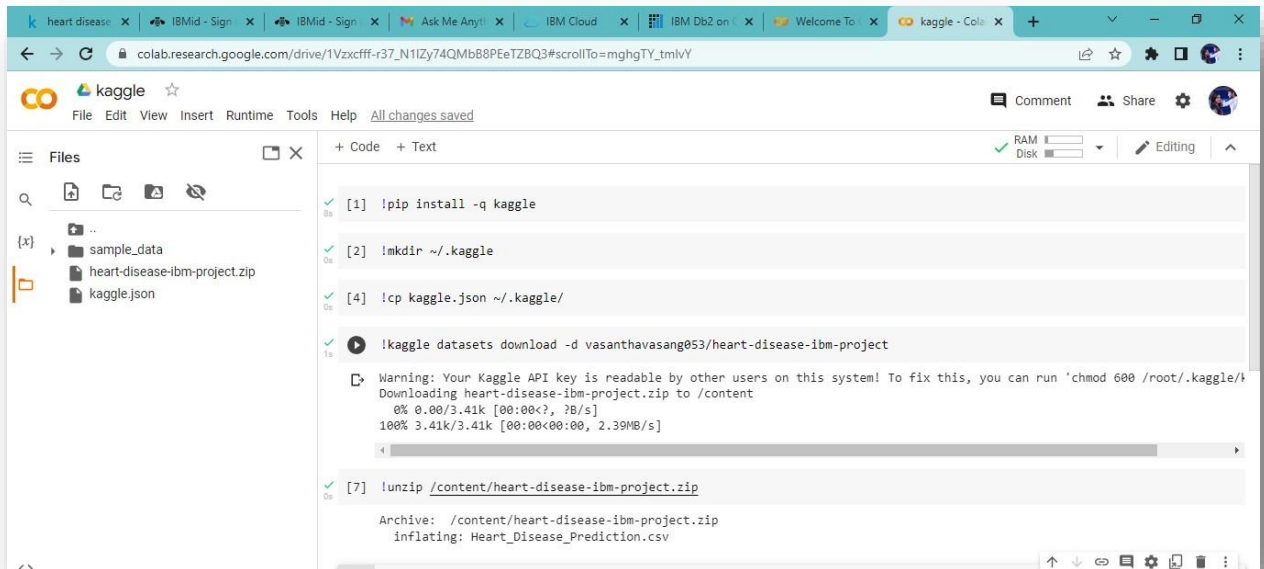


# Working with Dataset

TEAM ID	PNT2022TMID12921
PROJECT NAME	Visualizing and Predicting HeartDisease with an Interactive Dash Board

## Loading and Understanding the Dataset

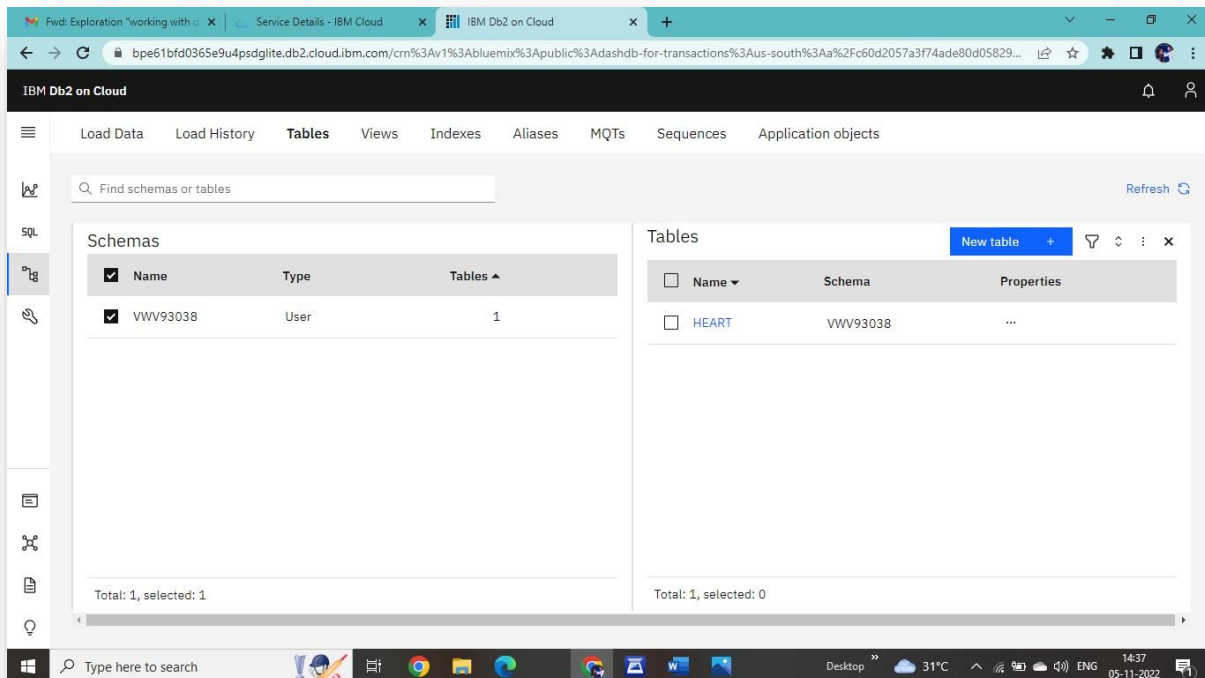
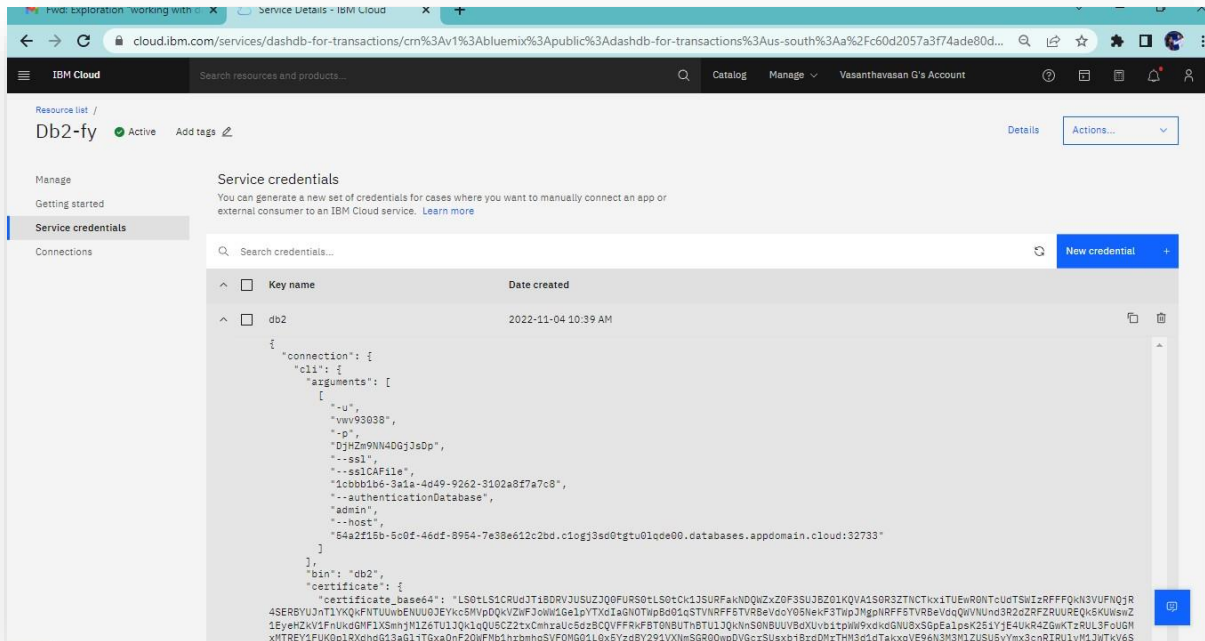


The screenshot shows a Google Colab notebook interface. The left sidebar displays the file explorer with a folder named 'sample\_data' containing 'heart-disease-ibm-project.zip' and 'kaggle.json'. The main area shows a series of code cells executed successfully. The code cells perform the following actions:

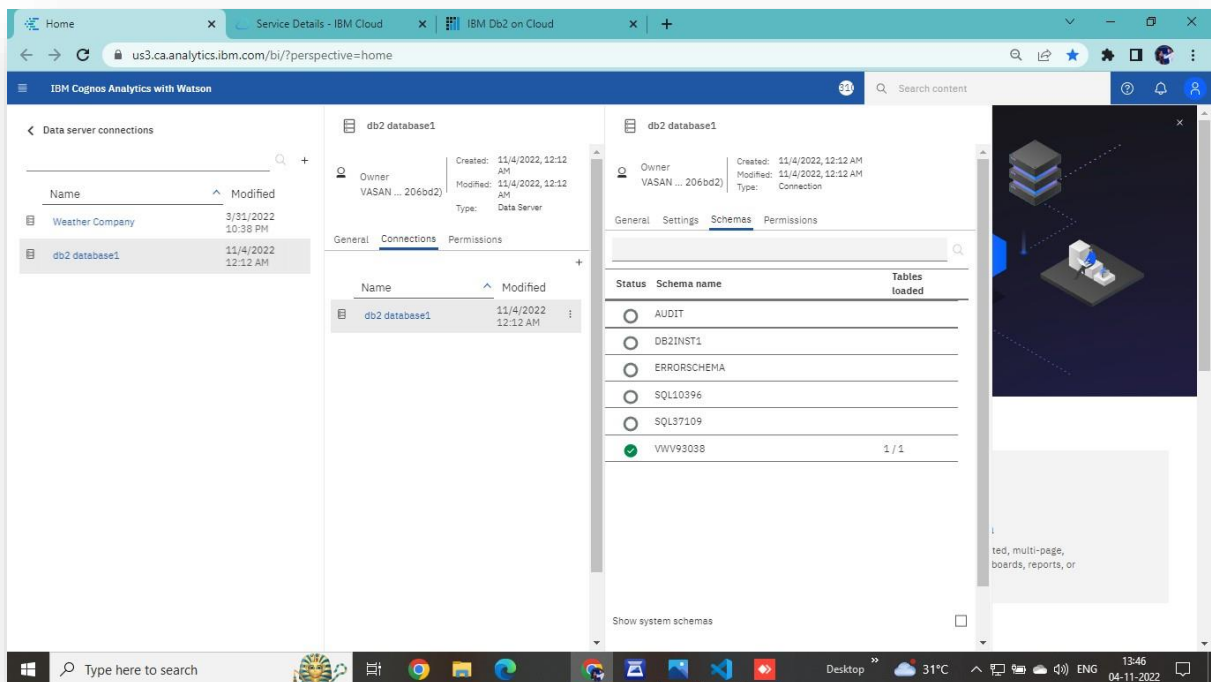
- Install Kaggle: `!pip install -q kaggle`
- Create a directory: `!mkdir ~/.kaggle`
- Copy the Kaggle API key: `!cp kaggle.json ~/.kaggle/`
- Download the dataset: `!kaggle datasets download -d vasanthavasang053/heart-disease-ibm-project`
- Unzip the dataset: `!unzip /content/heart-disease-ibm-project.zip`

The output of the download command shows the file 'heart-disease-ibm-project.zip' being downloaded to '/content' with a size of 3.41k. The output of the unzip command shows the file being inflated into 'Heart\_Disease\_Prediction.csv'.

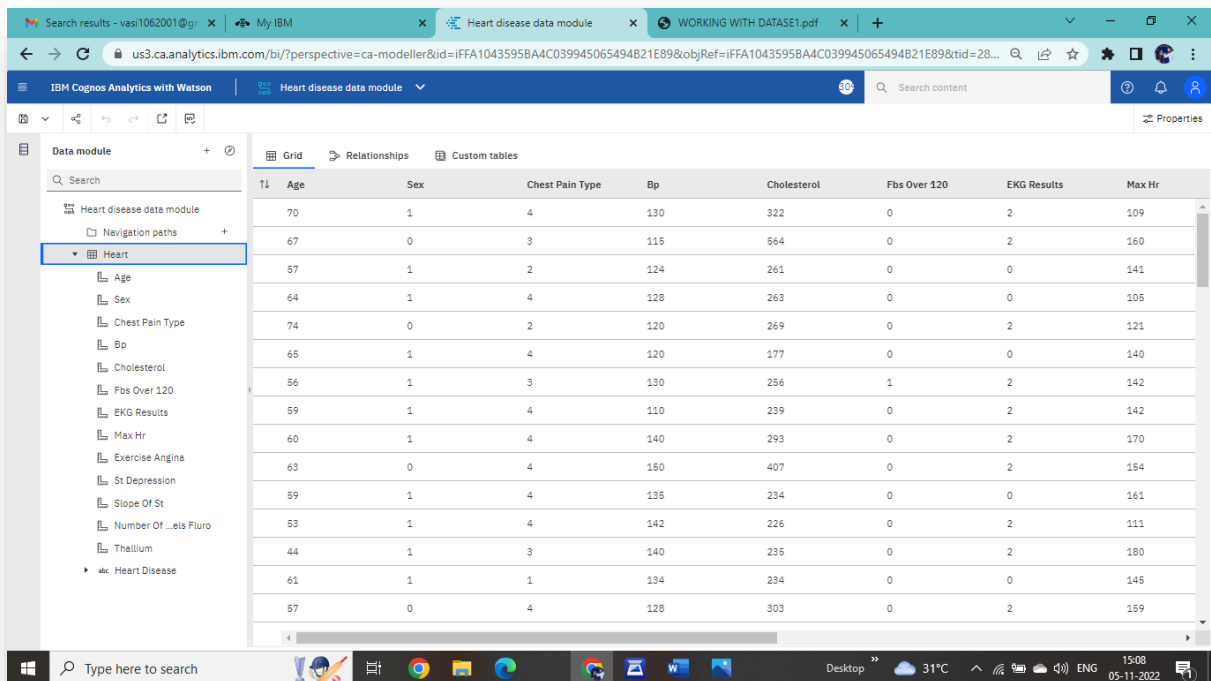
## Successfully created Db2 Service Credential



# Successfully connected IBM Cloud Db2 to Cognos Analytics

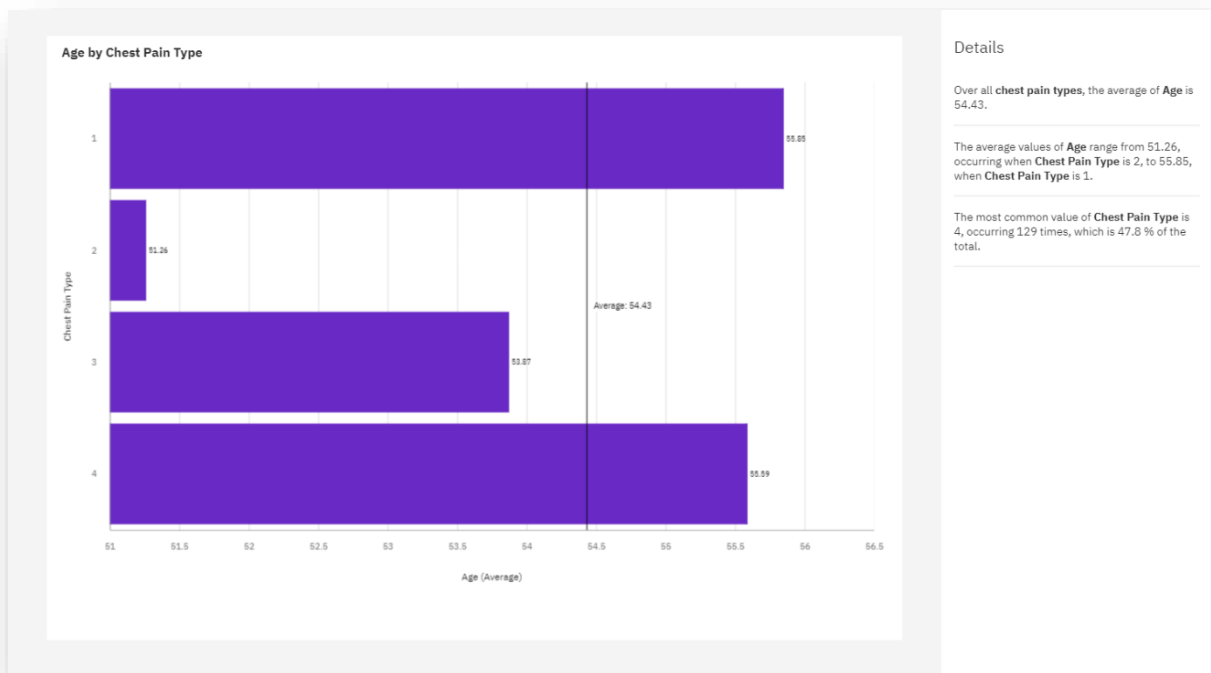


## Data Preparation (Data Module)

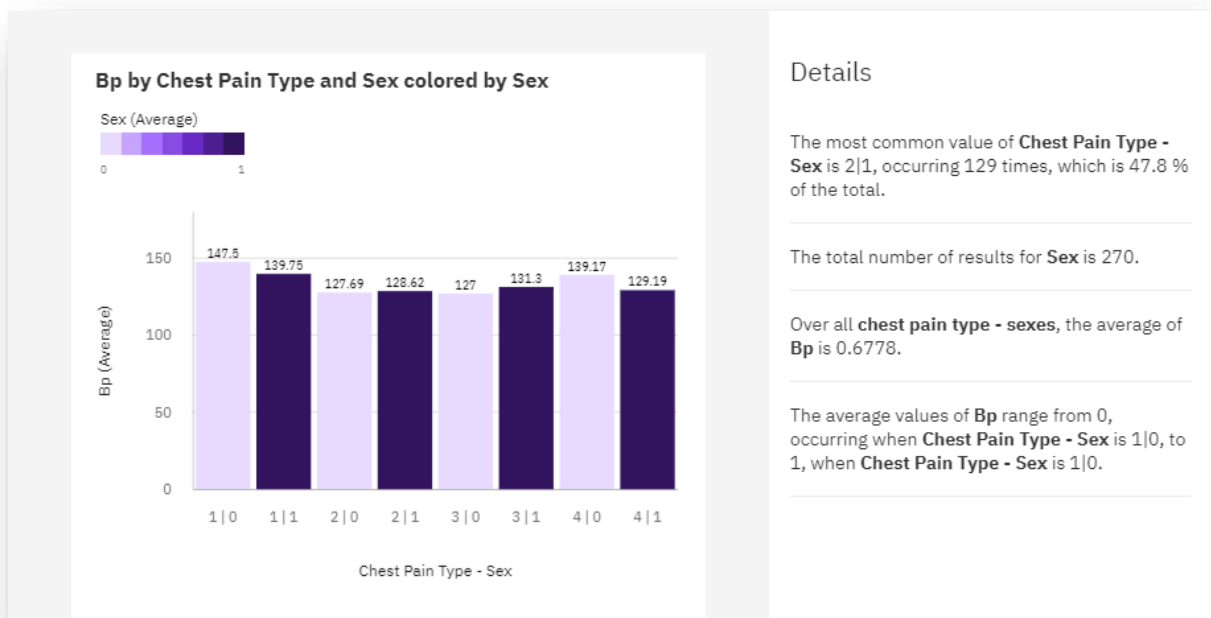


## Exploration of Data:

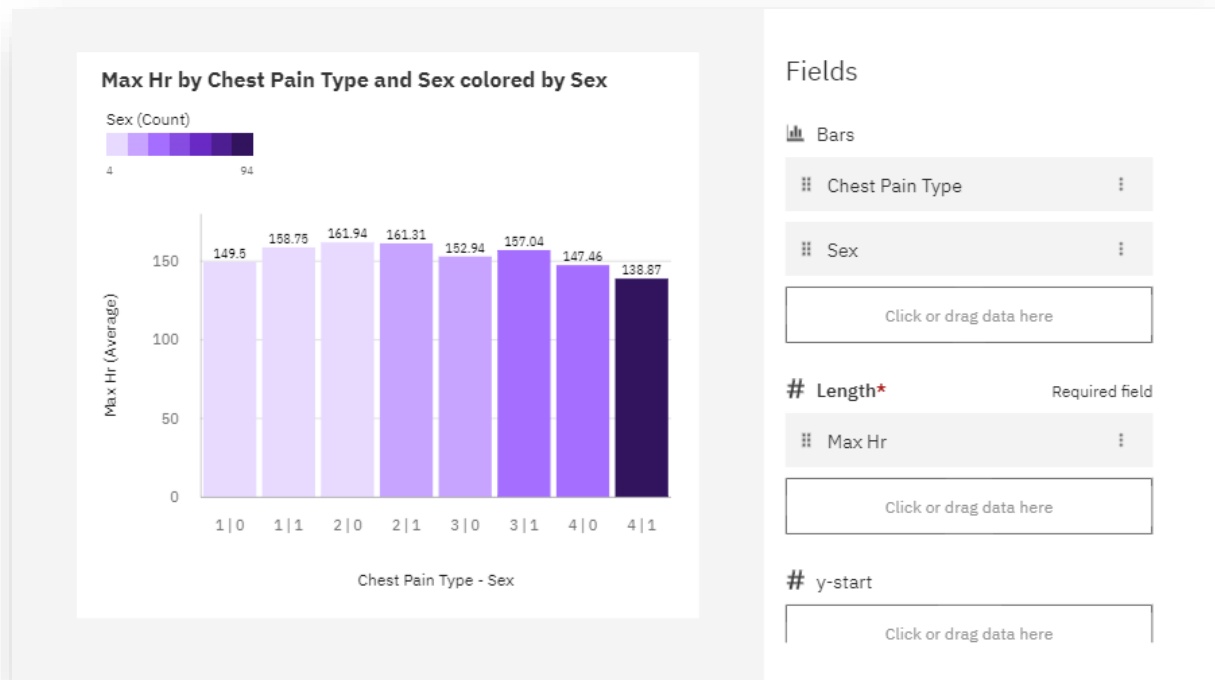
### Age by Chest pain type



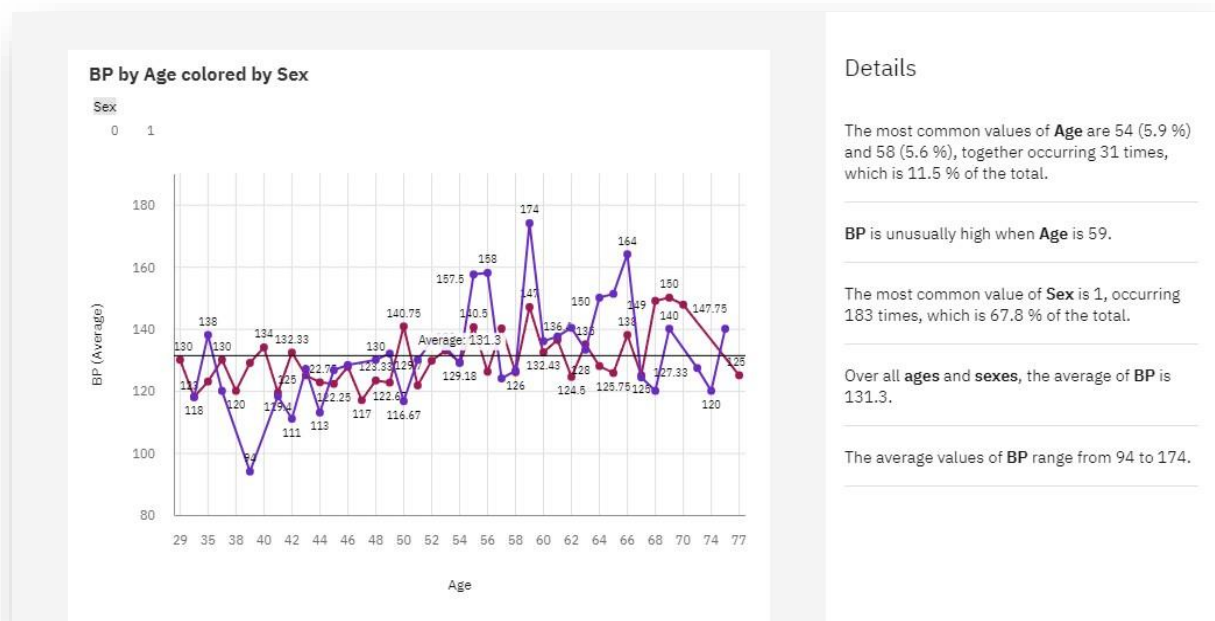
## Exploration of Bp vs Chest pain type and Gender



# Exploration of Max Heart Rate During Chest pain

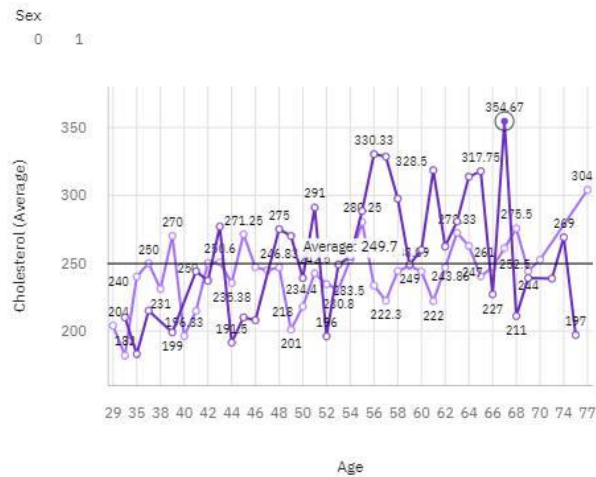


# Exploration of Bp by Age



# Exploration of Cholesterol by Age and Gender

Cholesterol by Age colored by Sex



## Analytics

### Insights

#### Show average value

The average value of Cholesterol is 249.7.

#### Show meaningful differences

1 found

#### Show predictive strength

There is no reliable predictive relationship between Age, Sex and Cholesterol.