Lesson 01 Demo 06

Generating Data Visualization

Objective: To generate data visualization using GenAI tools

Tools required: Data Squirrel

Prerequisites: None

Steps to be followed:

1. Download the Dataset
2. Upload the Dataset to Data Squirrel
3. Generate Visualizations
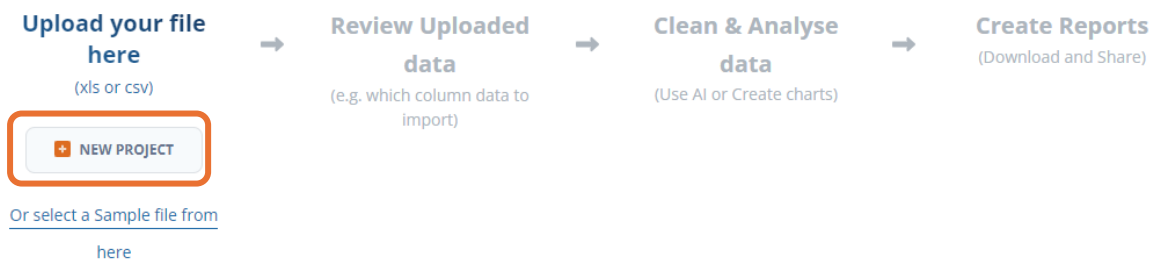4. Generate Visualizations for People with Disabilities (Color Blindness)

Step 1: Download the Dataset

1.1 Download customer.csv from the reference materials

Step 2: Upload the Dataset to Data Squirrel

2.1 Navigate to Data Squirrel
2.2 Click on **NEW PROJECT** on the homepage

2.3 Upload the dataset to Data Squirrel
2.4 Click on **Click to Review** and select **AUTO CLEAN & IMPORT**

My Projects

#	PROJECT NAME	STATUS ❓	# OF CHARTS	LAST UPDATED
1	📄 Customers Project	🔵 Processed Click to Review	0	2 minutes ago

✦ CLICK TO CLEAN   AUTO CLEAN & IMPORT

Step 3: Generate Visualizations

3.1 Click on **AUTO AI**

Customers Project

🔲 🔒⊞ ADD DATA   ⬇ DOWNLOAD

✦ Ask SquirrelBot ᴮᴱᵀᴬ

🐿️ | Show me a split of revenue per city per payment method used | ↵ |

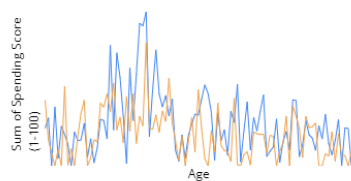**- OR -**

Try out Auto suggestions

📊 AUTO AI

Don't know what you are looking for? Try Auto AI.
Our AI engine will create optimal charts for you based on your data.

Generated Output:

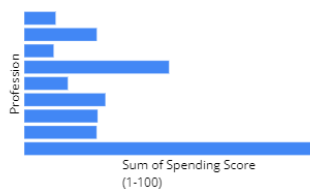Visualizing the distribution of spending score per gender

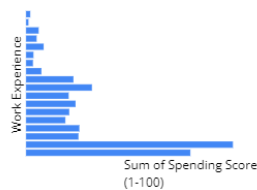Tracking spending score over age grouped per gender

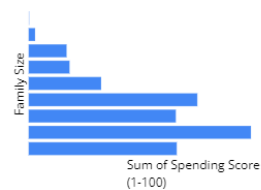Visualizing the distribution of spending score per annual income

Visualizing the distribution of spending score per profession

Visualizing the distribution of spending score per work experience

Visualizing the distribution of spending score per family size

3.2 Click on the field, ask for a customized visualization, and click enter

+*Ask SquirrelBot BETA

🐿️ Construct a stacked bar chart where each bar represents a profession.| ↵
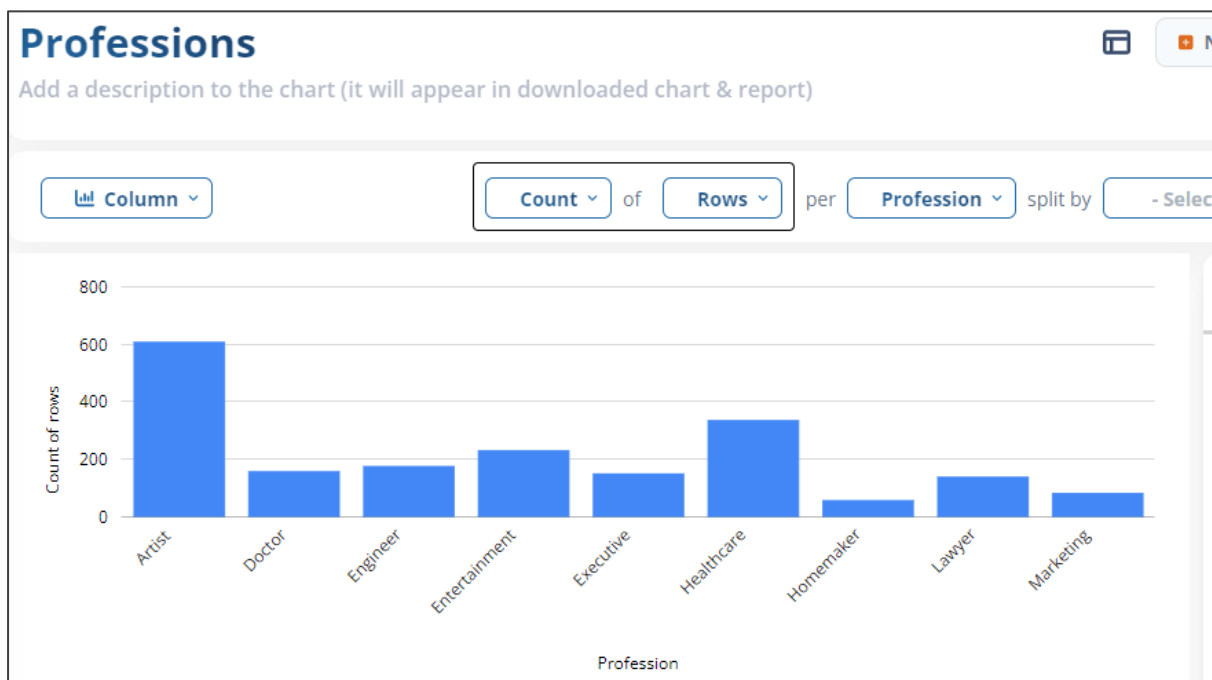
3.3 Click on **TAKE ME THERE**

👤 Construct a stacked bar chart where each bar represents a profession.

Chart creation in progress 🐿️

TAKE ME THERE

Generated Output:

Professions

Add a description to the chart (it will appear in downloaded chart & report)

📊 Column ⌄ | Count ⌄ of Rows ⌄ per Profession ⌄ split by - Selec

Chart showing Count of rows per Profession:
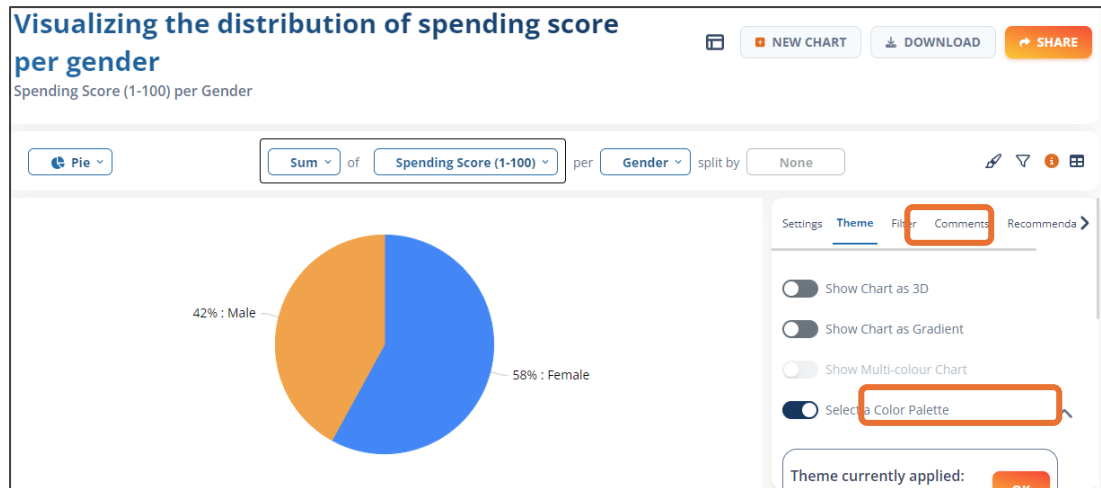Artist ~610, Doctor ~160, Engineer ~175, Entertainment ~230, Executive ~150, Healthcare ~335, Homemaker ~55, Lawyer ~140, Marketing ~85

Step 4: Generate Visualizations for People with Disabilities (Color Blindness)

4.1 Select any chart.

4.2 Select Theme → Select a Color Palette to replace default color schemes with accessible palettes

4.3 Use alternative visual encodings like patterns, shapes, and sizes

4.4 Adjust transparency and contrast for better readability