

Hands-on Lab: Explore a Simple Generative Tool

Estimated time needed: 30 minutes

Overview

Generative AI models have revolutionized how you interact with technology, enabling you to create new content, generate realistic images, and translate languages with remarkable accuracy. In this lab, you will gain hands-on experience with a simple generative AI tool, DataRobot, exploring its capabilities and applications.

Learning Objectives

After completing this lab, you will be able to:

- Sign up in DataRobot
- Add a data set to the use case
- Work on model building

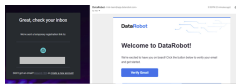
Task 1: Sign-up in DataRobot

Step 1: Click www.datarobot.com

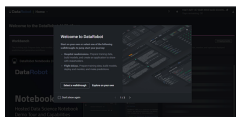
Step 2: Fill in the required information under the "Start for free" section and create an account.

Step 4: A new window will open; select the relevant option for signing up.

Step 5: Confirm your email by clicking 'Verify Email' in your inbox.

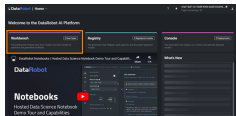


Step 6: Sign up and start your first experience of using the Generative AI tool. The dashboard will look like the image below. You may like to familiarize yourself with the application by clicking 'Select a walkthrough'.

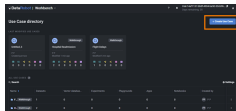


Task 2: Add a data set

Step 7: The dashboard will appear shortly, and your screen will look as shown below. Click 'Workbench'.



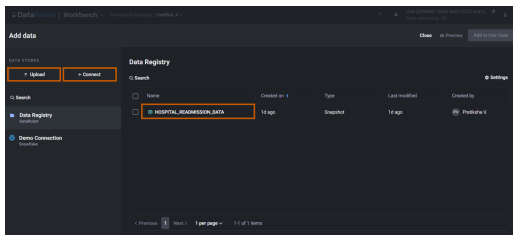
Step 8: Click 'Create New Case'.



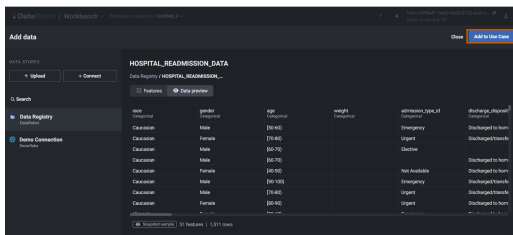
Step 9: Click 'Add' and 'Data' to include the data set in your use case.



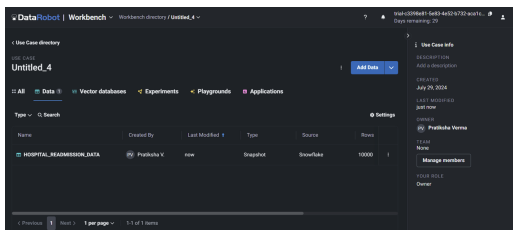
Step 10: Upload your data set or 'Connect' to the data source; however, for this lab, you can select an in-built sample data set 'HOSPITAL_READMISSION_DATA'.



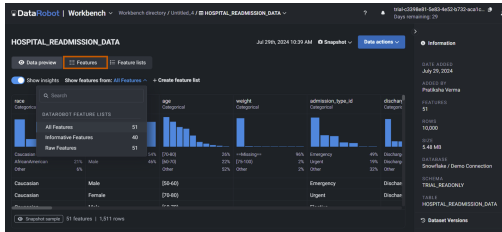
Step 11: Once you select the data set, you can see a preview of it. You can also view the data set's features, as shown below. Click 'Add to Use Case'.



Step 12: After you add the data set to the use case, the workbench will appear as shown below. You can click the data set to use the feature insights.

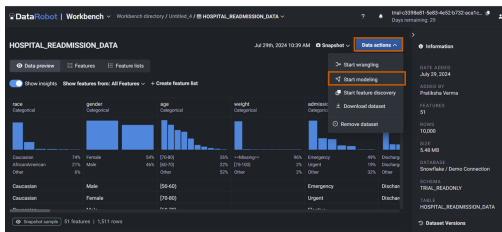


Step 12: Explore the All Features menu to display specific features.

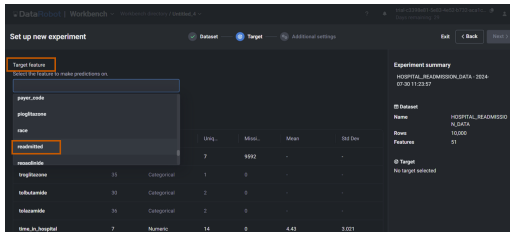


Task 3: Work on Data Modeling

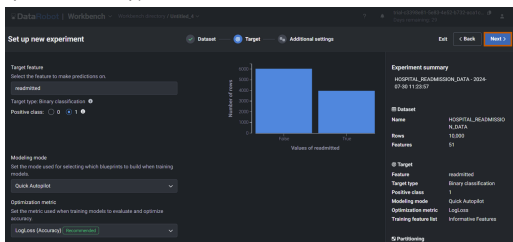
Step 14: Click **Start**. You will have options **Modeling** and **Start wrangling**. You can try data wrangling if you want to. For this lab, you will work on model building. Click **Start** and select **Modeling**. It will take a while to prepare a data set for modeling.



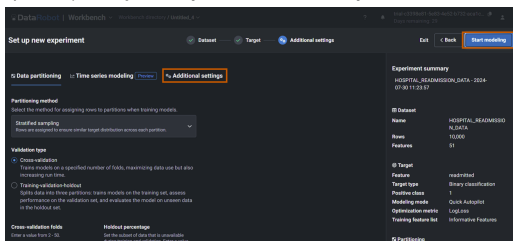
Step 15: Once done, you need to select the **Target feature**. Select **readmitted** as your target feature.



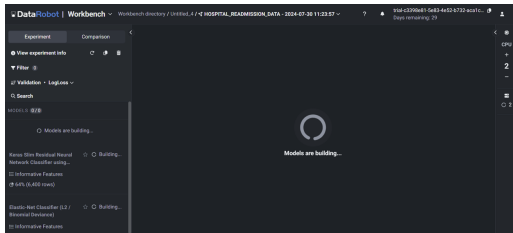
Step 16: The workflow screen will be displayed as shown below. Click **Next**.



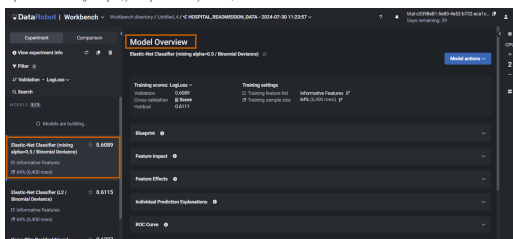
Step 17: You can modify the model setting in **Additional Settings**, once done, click **Next** and then click **Start modeling**.



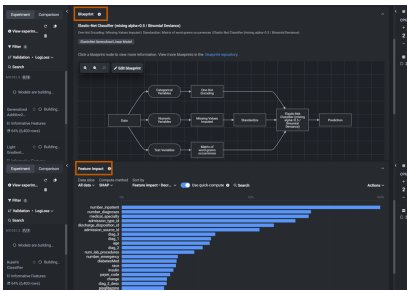
Step 18: Building models will take a while.



Step 19: Once the modeling is complete, you can pick a model of your choice, and the DataRobot will show the **Model Overview**.



Step 20: You can explore various model overview components like **Blueprint**, **Feature Impact**, and so on.



Step 21: If you have test or unseen data, you can also make predictions by clicking **Make Predictions** under **Model actions**.

This screenshot shows the 'Model Overview' page in IBM Watson Studio. The page is divided into several sections: 'Training settings', 'Model report', and 'Make Predictions'. The 'Make Predictions' section is highlighted, showing options to 'Make new predictions' and 'Download recent predictions'. A 'Model actions' dropdown menu is visible on the right, with 'Make predictions' selected. The 'Make Predictions' section also includes a 'Prediction options' area with radio buttons for 'Use model training data' and 'Use new data'.

Step 22: You can also click **Generate compliance report** and **download compliance report** for your use case.

The screenshot shows two parts of the IBM Watson Studio interface. On the left, the 'Model actions' dropdown menu is open, showing options like 'Register model', 'Make predictions', 'Generate app', 'Generate compliance report', and 'Delete model'. The 'Generate compliance report' option is highlighted. On the right, a 'Table of Contents' for the documentation is displayed, listing various topics such as 'How to Use This Document', 'Introduction to Model Development', 'Model Development Process and Workflow', and 'Model Deployment and Monitoring'.

Conclusion

In this lab, you have signed up in DataRobot, added a data set in a use case, and worked on data modelling.

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