

Hands-on Lab: Explore a Simple Generative Tool

Estimated time needed: 30 minutes

Overview

Generative AI models have revolutionized how we 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 new case
- Work on model building

Task 1: Sign-up in DataRobot

Step 1: Click <https://www.datarobot.com>

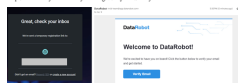
Step 2: Fill in the required information under the "Start for Free" section and create an account.

The screenshot shows the DataRobot website's sign-up page. The header includes the DataRobot logo and navigation links: Platform, Solutions, Customers, Partners, Resources, and Company. There are buttons for 'Contact Us' and 'Start for Free'. The main heading is 'Experience the DataRobot AI Platform'. Below it, a sub-heading says 'Less Friction, More AI. Get Started Today With a Free 30-Day Trial.' followed by a paragraph about streamlining predictive and generative AI workflows. A section titled 'Start your free AI case today' lists four bullet points: 1. Experience how DataRobot's easy-to-use data, testing, experiment, and building your models. 2. See how you can easily integrate your AI Experimentation and AI Production processes in a single solution. 3. Build predictive and generative AI use cases all in a single platform. 4. Learn how to accelerate your AI plans with hands-on data, case study insights, and an AI expert community. On the right, there is a 'Start for Free' form with fields for First Name, Last Name, Business Email, Phone, Company, Job Title, and Country. A 'Next: Please check our terms and...' link is at the bottom right.

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

The screenshot shows the DataRobot 'Welcome back to DataRobot' sign-in page. It offers two options: 'Sign in with Google' and 'Sign in with GitHub'. Below these, there is a section for email and password sign-in. The email field is pre-filled with 'example@email.com'. There is a 'Reset password' link next to the password field. A blue 'Sign in' button is at the bottom.

Step 3: Confirm your email by clicking 'Verify Email' in your inbox.



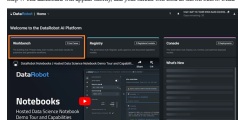
Step 6: Sign up and start your first experience of using the Generative AI tool.

The dashboard will look like the image below. You may like to familiarize yourself with the application by clicking 'Select a walkthrough'.

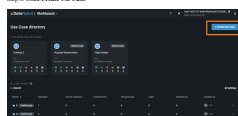


Task 2: Add a data set

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



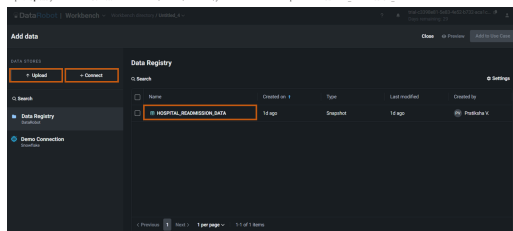
Step 8: Click 'New Case View Case'.



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



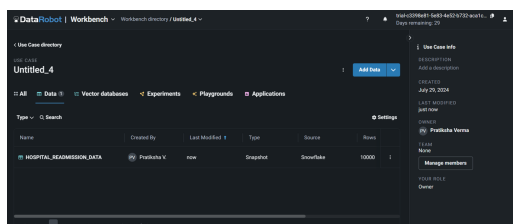
Step 10: It's good your data set or 'Connect' to the data source; however, for this lab, you can select an in-built sample data set 'HOSPITAL_READMISSION_DATA'.



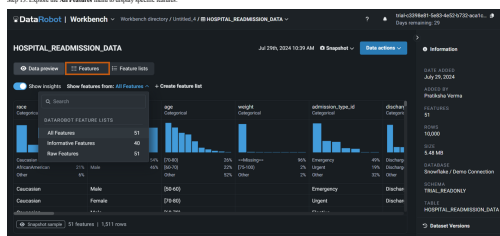
Step 11: Once you select the data set, you can see a preview of it. You can also view the data set's features, as shown below. Click 'Add to Use Case'.



Step 12: After you add the data set to the new case, the workbook will appear as shown below. You can click the data set to see the feature mapping.

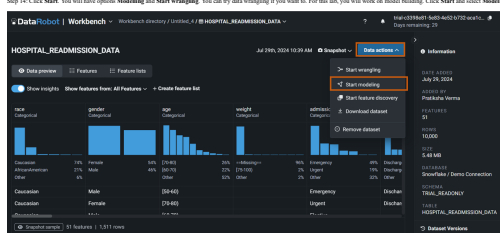


Step 13: Explore the All Features menu to display specific features.

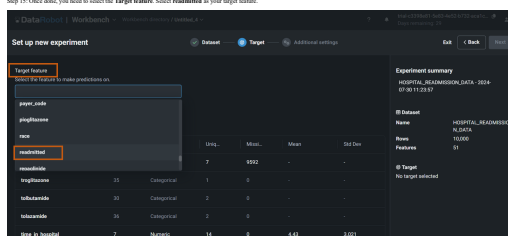


Task 3: Work on Data Modeling

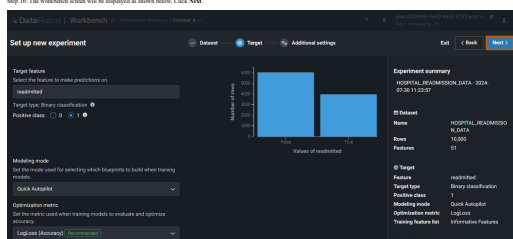
Step 14: Click Start. You will have options Modeling and Start wrangling. You can try data wrangling if you want to. For this lab, you will work on model building. Click Start and select Modeling. It will take a while to prepare a data set for modeling.



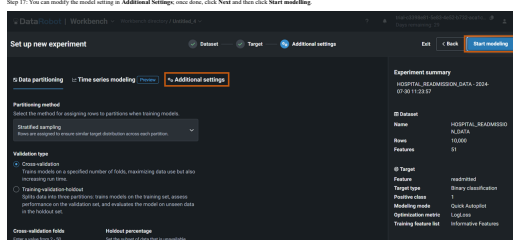
Step 15: Once done, you need to select the Target feature. Select readmitted as your target feature.



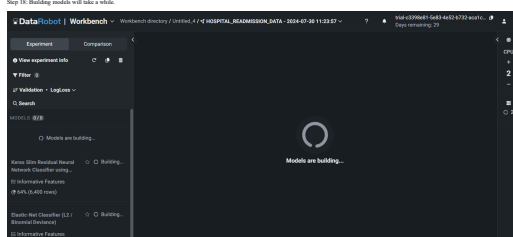
Step 16: The workbench screen will be displayed as shown below. Click Next.



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 Dashboard will show the Model Overview.

Model Overview

Elastic Net Classifier (v1.0.0.000)

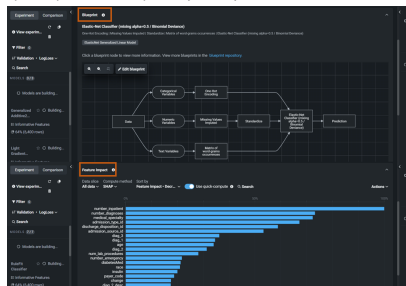
Training scores: Log loss: 0.0000, Cross-entropy: 0.0000, ROC AUC: 0.9999

Training settings: Training dataset: 10, Training sample size: 64K (1,000 rows)

Informational Features: 17

Model actions: Register model, Make predictions, Download compliance report, Delete model

Step 20: You can explore various model overview components like **Blasplot**, **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**.

Make Predictions

Upload data or use training data

Make Predictions

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

Model actions

- Register model
- Make predictions
- Chain app
- Generate compliance report
- Delete model

Table of Contents

- 1. How To Use This Document
- 2. Elastic Net Classifier Development Documentation
- 3. Elastic Net Classifier and Model Overview
 - 3.1 Model Description
 - 3.2 Model Development Progress and Extended Use
 - 3.3 Model Description and Overview
 - 3.4 Overview of Model Details
 - 3.5 Model Development
- 4. Model Data Overview
 - 4.1 Feature Description
 - 4.2 Data Source Overview and Aggregations
 - 4.3 Data Source Description, Preparation, and Quality & Compliance

Conclusion

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

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