

Data Science With Bard



Bard is a large language model (LLM) chatbot developed by Google AI. It is trained on a massive dataset of text and code, and can generate text, translate languages, write different kinds of creative content, and answer your questions in an informative way.

New Bard is running on the **PaLM 2** model. It is far better at coding, reasoning, and creative writing problems than LaMDA.

Ideas & Planning

Dataset Suggestion

>>> Act as a data science project manager and suggest me 5 relevant datasets for the bird image classifier.

Explaining the Concept

>>> Act as a professional machine learning instructor and explain everything about deep learning with examples.

Portfolio Project Ideas

>>> Act as a data science coach and suggest me 5 portfolios of data science projects to showcase my expertise in unsupervised learning.

Project Planning

>>> Act as a professional Data Scientist and write a detailed plan for a credit card fraud detection project.

Programming

Optimize the Code

>>> Act as a code optimizer and point out the issues with the following code and optimize it. [Python-Code]

Translate R to Python

>>> Act as a code translator and convert the following code from R to Python. [R-Code]

Unit Test

>>> Act as a software developer and write a unit test for train function. The test cases are: x should not be null value and y should be a numerical value.

Code Explanation

>>> Act as a code explainer and explain what the code is doing? [Python-Code]

Optimize Code

>>> Act as a software developer and improve the time complexity of the following code. [Python-Code]

SQL Query

SQL Formatting

>>> Act as SQL formatter and convert all reserved keywords to uppercase. [SQL-Query]

Translate Between DBMS

>>> Act as a professional data engineer and write a MySQL script for PostgreSQL's DATE_TRUNC.

Calculate Average

>>> Act as a professional data scientist and write a SQL query that works for PostgreSQL 14. I have a table with two columns [date, temp]. I would like to calculate an average temp over time.

Calculate Top 5

>>> Act as a professional data scientist and write a SQL query to create a report with the employee data for the top 5 salaries in the company.

Optimize SQL

>>> Act as a SQL query optimizer and speed up the following script. [SQL-Query]

Spreadsheets

Spreadsheets Formula

>>> Act as a BI Engineer and write Google Sheets formula for displaying the images using URL column.

Dummy Data

>>> Act as an intelligent bot and generate the dummy data for me to use as placeholders in my spreadsheet. Display the results in tabular form.

Tips

>>> Act as a data science instructor and provide me with some tips on how to improve the efficiency of my spreadsheet.

Explainer

>>> Act as a data analyst and explain how I can remove extra spaces from a string in Google Sheets.

Data Analysis

Generate Data

>>> Act as an intelligent bot and generate a fake data with 100 rows and 4 columns: [id,name,grade,subject].

Data Cleaning

>>> Act as an NLP engineer and write Python code to clean tweets for text classification.

Data Exploration

>>> Act as a Data Analyst and write R code for data visualization and exploration. The dataset consists of 100 rows and four columns:[id, name, grade, subject].

Data Visualization

>>> Act as a Data Analyst and create a matplotlib bar chart of subject vs. grade. The dataset consists of 100 rows of columns [id, name, grade, subject].

Machine Learning

Train Classifier Model

>>> Act as a Data Scientist and write Python code to build a machine-learning model that predicts tweet toxicity. I have a dataset with columns [id, tweet, toxicity].

Hyperparameter Tuning

>>> Act as Machine Learning engineer and write a Python code for hyperparameters tuning of XGBoost regression model.

Imbalance Data

>>> Act as a Data Science Manager and suggest strategies for balancing the image classification data.

Explain the Model

>>> Act as a Machine Learning Engineer and write Python code for LightGBM model Shap analysis.

Research

Explain the Concept

>>> Act as a Data Science Instructor and explain how Large Language Models work with transformers coding examples.

Stakeholders

>>> Act as a Presentation Guru and give me tips on explaining data science reports to a non-technical stakeholder.

Summarize the paper

>>> Act as a Research Paper summarizer and summarize "Long Text Generation via Adversarial Training with Leaked Information" for a non technical person.

Writing Blog

>>> Act as a technical writer and suggest an outline for a blog, "Hallucination in Large Language Models"

Research History

>>> Act as an AI expert and conduct research on evolution of AI?

