Analytics Vidhya

Template Pattern

Instructor

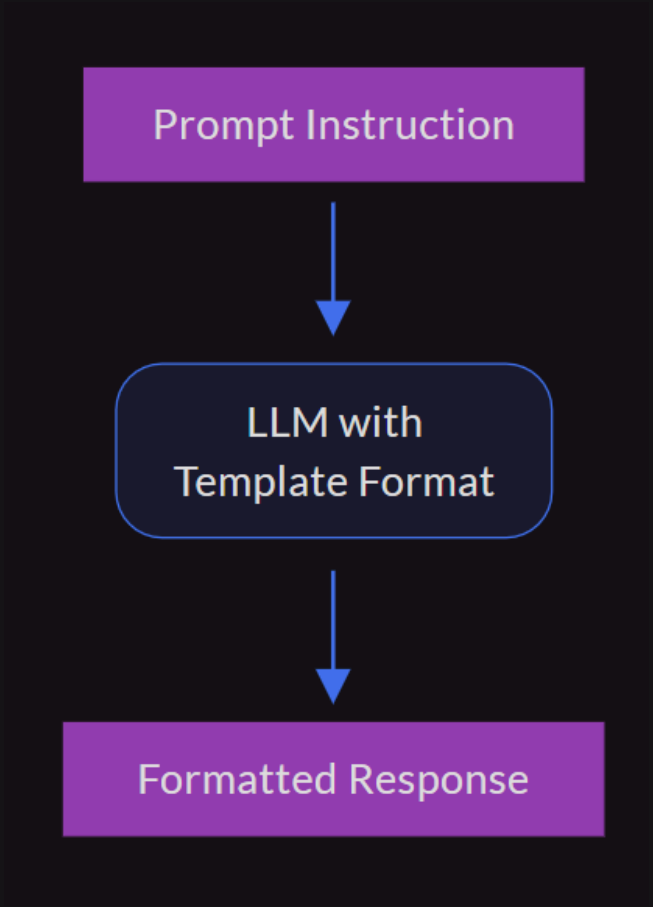
Dipanjan Sarkar

Head of Community & Principal AI Scientist at Analytics Vidhya

Google Developer Expert - ML & Cloud Champion Innovator

Published Author

Template Pattern



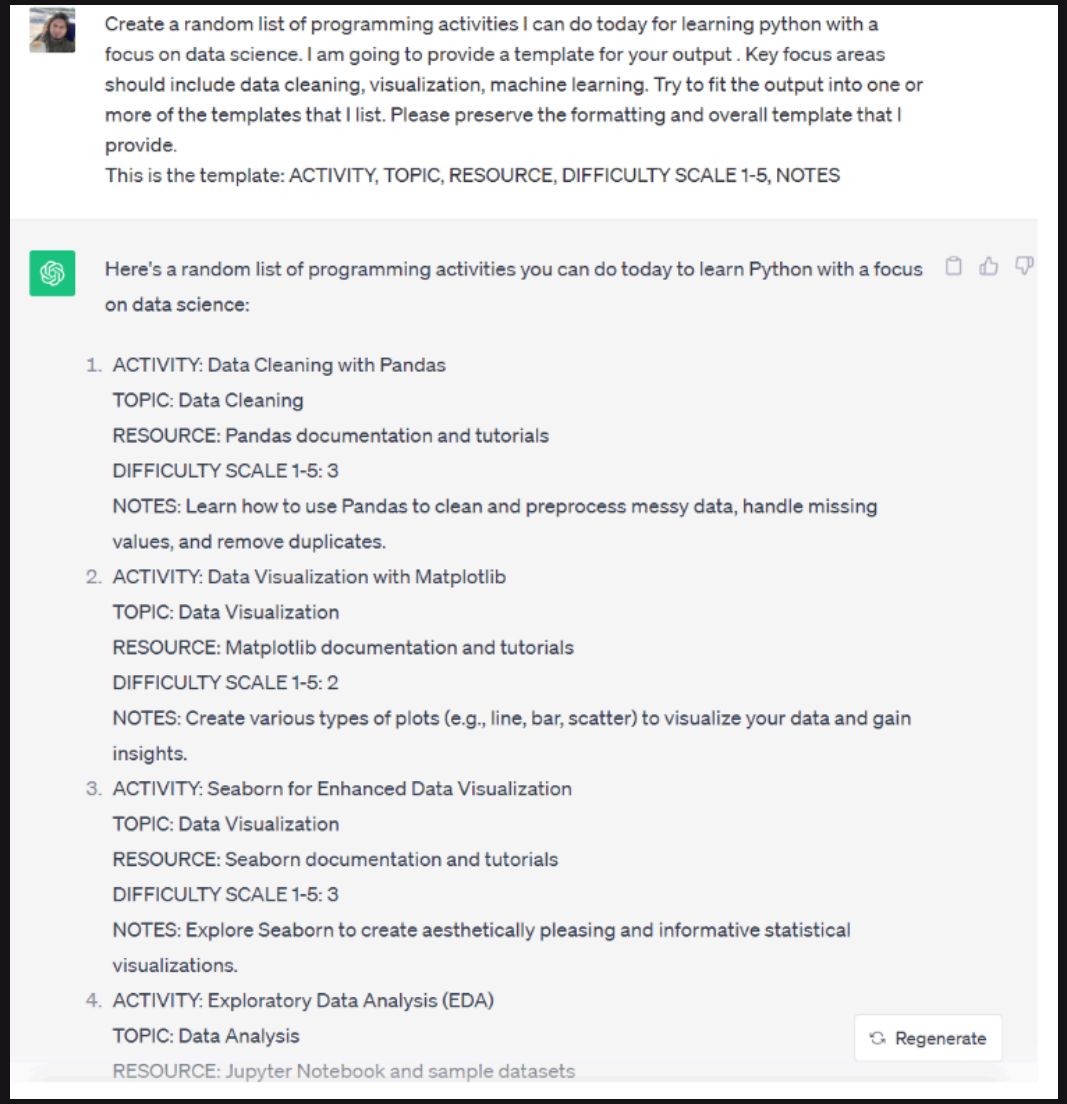
- This pattern forces ChatGPT to give responses based on your mentioned template.
- To use this pattern, your prompt should make the following fundamental contextual statements:
  - Please perform this task
  - I am going to provide a template for your output
  - Try to fit the output into the template that I list
  - Please preserve the formatting and overall template that I provide
  - This is the template: <PATTERN>

Template Pattern

Example

- Create a random list of programming activities I can do today for learning Python with a focus on data science. **I am going to provide a template for your output**. Key focus areas should include data cleaning, visualization, and machine learning. Try to fit the output into the templates that I list. Please preserve the formatting and overall template that I provide. This is the template: ACTIVITY, TOPIC, RESOURCE, DIFFICULTY SCALE 1-5, NOTES

Template Pattern - Examples



Create a random list of programming activities I can do today for learning python with a focus on data science. I am going to provide a template for your output . Key focus areas should include data cleaning, visualization, machine learning. Try to fit the output into one or more of the templates that I list. Please preserve the formatting and overall template that I provide.
This is the template: ACTIVITY, TOPIC, RESOURCE, DIFFICULTY SCALE 1-5, NOTES

Here's a random list of programming activities you can do today to learn Python with a focus on data science:

1. ACTIVITY: Data Cleaning with Pandas
   TOPIC: Data Cleaning
   RESOURCE: Pandas documentation and tutorials
   DIFFICULTY SCALE 1-5: 3
   NOTES: Learn how to use Pandas to clean and preprocess messy data, handle missing values, and remove duplicates.
2. ACTIVITY: Data Visualization with Matplotlib
   TOPIC: Data Visualization
   RESOURCE: Matplotlib documentation and tutorials
   DIFFICULTY SCALE 1-5: 2
   NOTES: Create various types of plots (e.g., line, bar, scatter) to visualize your data and gain insights.
3. ACTIVITY: Seaborn for Enhanced Data Visualization
   TOPIC: Data Visualization
   RESOURCE: Seaborn documentation and tutorials
   DIFFICULTY SCALE 1-5: 3
   NOTES: Explore Seaborn to create aesthetically pleasing and informative statistical visualizations.
4. ACTIVITY: Exploratory Data Analysis (EDA)
   TOPIC: Data Analysis
   RESOURCE: Jupyter Notebook and sample datasets

Regenerate

7. ACTIVITY: K-Means Clustering
   TOPIC: Machine Learning
   RESOURCE: Scikit-Learn documentation and tutorials
   DIFFICULTY SCALE 1-5: 4
   NOTES: Explore unsupervised learning by applying K-Means clustering to group simila data points.
8. ACTIVITY: Time Series Analysis with Python
   TOPIC: Time Series Analysis
   RESOURCE: Pandas and Statsmodels documentation
   DIFFICULTY SCALE 1-5: 4
   NOTES: Dive into time series data, perform decomposition, and build time series forecasting models.
9. ACTIVITY: Natural Language Processing (NLP) Basics
   TOPIC: Natural Language Processing
   RESOURCE: NLTK or SpaCy documentation and tutorials
   DIFFICULTY SCALE 1-5: 4
   NOTES: Get started with NLP by tokenizing text, performing text classification, and exploring sentiment analysis.
10. ACTIVITY: Portfolio Project
    TOPIC: Data Science Project
    RESOURCE: Your own data or publicly available datasets
    DIFFICULTY SCALE 1-5: 5
    NOTES: Apply your Python data science skills to a personal project, such as creating a predictive model, building a dashboard, or conducting in-depth analysis.

Feel free to choose one or more of these activities based on your current skill level and interests in data science with Python.

Thank You

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