

Here is a list of additional starting prompts that you may use in different job roles.

Remember: these are just initial prompts - Take the potential limitations into account
Experiment with the improvement suggestions - Iterate and refine - Good prompts require creativity and experimentation.
Always validate the output and follow the guiding principles and best practices discussed in the course.



Data Analysts

TASK	AI PROMPT	ADDITIONAL INPUT	POTENTIAL LIMITATIONS	IMPROVEMENT SUGGESTIONS
Data exploration	Conduct a data exploration for the following dataset: [dataset]	Dataset	May not always address all relevant data insights or patterns	Include specific dataset details, desired outcomes, or exploration techniques
Data cleaning	Develop a data cleaning plan for the following dataset: [dataset]	Dataset	May not always address all relevant data quality issues or challenges	Include specific dataset details, desired outcomes, or cleaning techniques
Data analysis	Perform a data analysis on the following dataset: [dataset]	Dataset	May not always provide in-depth insights or actionable findings	Include specific analysis goals, desired outcomes, or analysis techniques
Descriptive statistics	Calculate descriptive statistics for the following dataset: [dataset]	Dataset	May not always address all relevant statistics or insights	Include specific dataset details, desired outcomes, or statistical requirements
Hypothesis testing	Conduct a hypothesis test for the following research question: [research question]	Research question	May not always address all relevant assumptions or limitations	Include specific research question details, desired outcomes, or test assumptions
Regression analysis	Perform a regression analysis for the following dataset: [dataset]	Dataset	May not always consider all relevant factors or constraints	Include specific dataset details, desired outcomes, or regression techniques
Time series analysis	Conduct a time series analysis for the following dataset: [dataset]	Dataset	May not always address all relevant time series patterns or challenges	Include specific dataset details, desired outcomes, or time series techniques
Data visualization	Create a data visualization for the following dataset: [dataset]	Dataset	May not always achieve the desired level of clarity or understanding	Include specific visualization requirements, desired outcomes, or target audience
Report generation	Generate a data analysis report for the following dataset: [dataset]	Dataset	May not always address all relevant findings or insights	Include specific report requirements, desired outcomes, or focus areas
Data privacy and security	Assess the data privacy and security implications of using the following dataset: [dataset]	Dataset	May not always address all relevant data privacy or security concerns or challenges	Include specific dataset details, desired outcomes, or data privacy and security regulationsTask

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Data Scientists

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Data preprocessing	Develop a data preprocessing plan for the following dataset: [dataset]	Dataset	May not always address all relevant preprocessing needs or challenges	Include specific dataset details, desired outcomes, or techniques
Model selection	Recommend an appropriate machine learning model for the following problem: [problem]	Problem	May not always consider all relevant factors or constraints	Include specific problem details, desired outcomes, or requirements
Feature engineering	Create a feature engineering plan for the following dataset: [dataset]	Dataset	May not always address all relevant feature engineering needs or challenges	Include dataset details, desired outcomes, or techniques
Model training	Develop a model training plan for the following dataset and model: [dataset and model]	Dataset and model	May not always consider all relevant factors or constraints	Include specific dataset details, model requirements, or training techniques
Model evaluation	Propose an evaluation plan for the following machine learning model: [model]	Model	May not always address all relevant evaluation criteria or methods	Include specific evaluation criteria, desired outcomes/collection methods
Model optimization	Suggest optimization techniques for the following machine learning model: [model]	Model	May not always achieve the desired level of model performance or efficiency	Include specific model requirements, desired outcomes, or techniques
Model deployment	Create a model deployment plan for the following machine learning model: [model]	Model	May not always consider all relevant deployment factors or constraints	Include deployment requirements, desired outcomes, or challenges
Data visualization	Design a data visualization for the following data: [data]	Data	May not always achieve the desired level of clarity or understanding	Include specific visualizations desired outcomes, or target audience
Model interpretation	Provide an interpretation of the following machine learning model's results: [model results]	Model results	May not always provide in-depth insights or actionable findings	Include specific areas of focus or desired interpretation techniques
Data privacy	Assess the data privacy implications of using the following dataset: [dataset]	Dataset	May not always address all relevant data privacy concerns or challenges	Include specific dataset details, desired outcomes, or data privacy regulationsTask

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