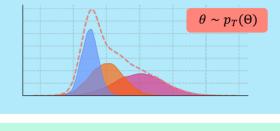
Task Descriptions

[You can predict TARGET based on FEATURES. Please provide a mean and standard deviation for a Gaussian prior for a linear model...]

A base task description is rephrased by an LLM many times to produce a distribution over relevant task descriptions.

Language Model

The LLM outputs a Gaussian prior for each task description, which we use to build a mixture model.



Data

Data points

Data points are used to update the prior to produce the posterior with Monte Carlo methods.

Calculate posterior $p(\theta|D) \propto p(D|\theta) p(\theta)$

Make predictions