



Input for Domain Discovery

Repository Name: arviz,

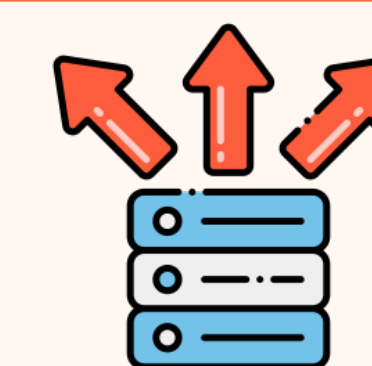
Repository Info: The ArviZ repository is a comprehensive Python package designed for the exploratory analysis of Bayesian models. ...

Parsed Semantic Features:

```
{  
  "visualize": ["plot empirical cumulative distribution",  
    "compare ECDF against a reference CDF", "support  
    confidence band visualization" ],  
  "extract data subsets": ["extract groups or subsets  
    from InferenceData objects", "support variable filtering  
    and sample reduction"],  
  "bayesian inference sampling utilities": ["initialize  
    sampling wrapper for Bayesian inference", "configure  
    optional arguments for sampling"],  
  ...  
}
```

Task: Based on the information above, please analyze the repository and determine its main functional areas.

Planning



Plan Result

<think>

Given a comprehensive feature list, I group capabilities by responsibility: data subsetting, filtering, aggregation form DataProcessing, and format, schema conversion plus IO form DataConversion. Sampler and backend wrappers, including sampling setup and configuration, form ModelIntegration. Sampling-quality checks form StatisticalDiagnostics, while model evaluation and comparison form BayesianEvaluation. ...

</think>

<action>

```
{  
  "functional_areas": [  
    "DataProcessing", "DataConversion",  
    "ModelIntegration", "StatisticalDiagnostics",  
    "BayesianEvaluation", "Visualization",  
    "ConfigurationManagement", "UtilityFunctions"  
  ]  
}  
</action>
```