# Stage-0: Sample Input

# Stage-2: Function Calling Generation Using Generated Reasoning



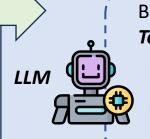
### Query (x)

I'm considering investing and I'd like to know what's happening in the market right now.

Could you get me the top market trends in the US?



Tools (T)



Based on the **Reasoning** (r), **Query** (x), **Tools** (T), the function calling(s):



Generated Function Calling (y')Market Trends API(...)





**Label** (y) (Training)

Market Trends API(trend\_type="MARKET\_INDEXES", country="us")



### Curriculum/Template (c)

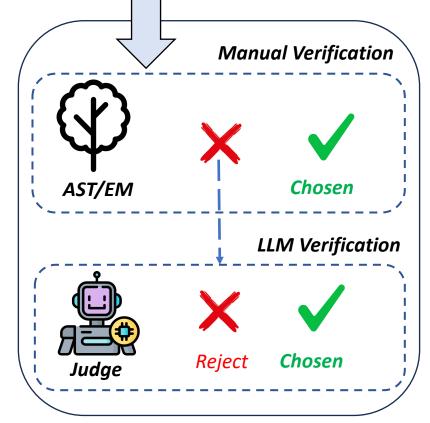
- (1) Identify function(s)...
- (2) Decision on relevancy...
- (3) Examine function documentation(s)...
- (4) Extract and validate users' query...
- (5) Conversion to fit function(s)...



# $\overline{R}easoning(r)$

1. ...the "Market Trends API" seems to be the most relevant as ...

- 4. Required parameter are:
  - trend\_type: required..
  - country: optional, default to "us"
  - language: optional, ...



Stage-1: Reasoning Chains Construction

Stage-3: Training Sample Filtering