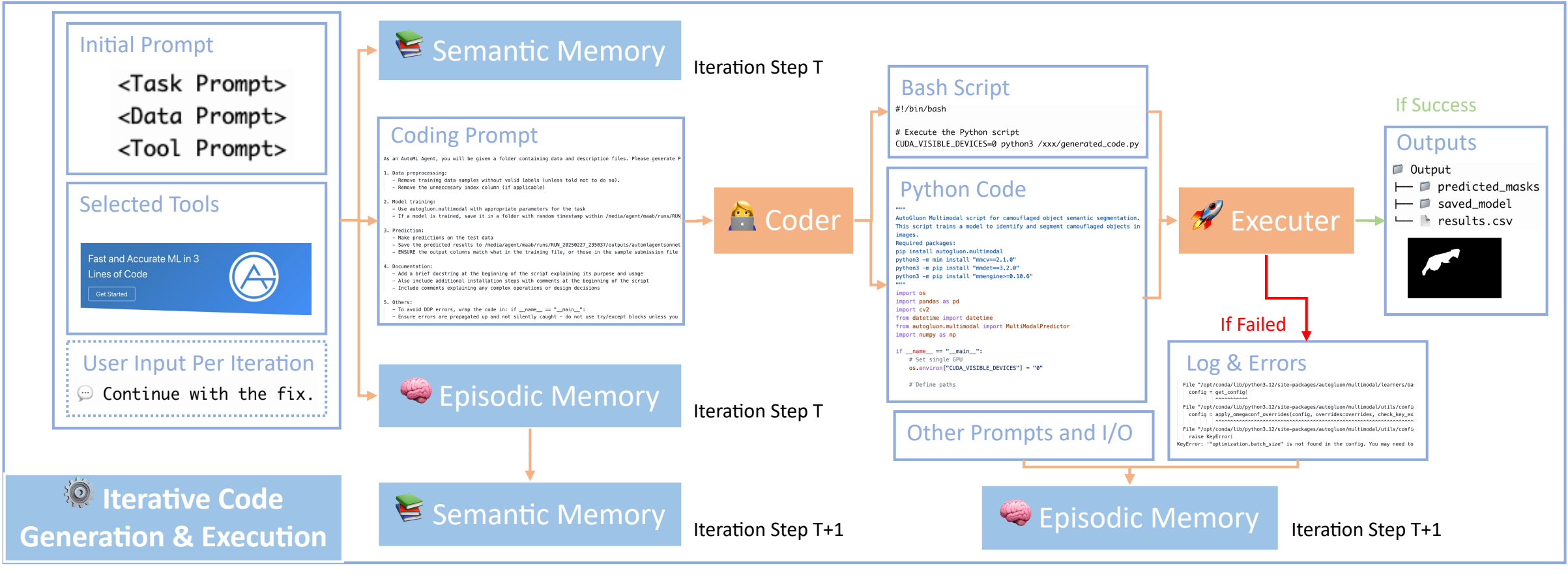
Initial Prompt
<Task Prompt>
<Data Prompt>
<Tool Prompt>
Selected Tools
Fast and Accurate ML in 3 Lines of Code
Get Started
User Input Per Iteration
Continue with the fix.
Iterative Code Generation & Execution
Semantic Memory
Iteration Step T
Coding Prompt
As an AutoML Agent, you will be given a folder containing data and description files. Please generate P
1. Data preprocessing:
– Remove training data samples without valid labels (unless told not to do so).
– Remove the unnecessary index column (if applicable)
2. Model training:
– Use autogluon.multimodal with appropriate parameters for the task
– If a model is trained, save it in a folder with random timestamp within /media/agent/maab/runs/RUN
3. Prediction:
– Make predictions on the test data
– Save the predicted results to /media/agent/maab/runs/RUN_20250227_235037/outputs/automlagentsonnet
– ENSURE the output columns match what in the training file, or those in the sample submission file
4. Documentation:
– Add a brief docstring at the beginning of the script explaining its purpose and usage
– Also include additional installation steps with comments at the beginning of the script
– Include comments explaining any complex operations or design decisions
5. Others:
– To avoid DDP errors, wrap the code in: if __name__ == "__main__":
– Ensure errors are propagated up and not silently caught - do not use try/except blocks unless you
Episodic Memory
Iteration Step T
Semantic Memory
Iteration Step T+1
Coder
Bash Script
#!/bin/bash
# Execute the Python script
CUDA_VISIBLE_DEVICES=0 python3 /xxx/generated_code.py
Python Code
"""
AutoGluon Multimodal script for camouflaged object semantic segmentation.
This script trains a model to identify and segment camouflaged objects in images.
Required packages:
pip install autogluon.multimodal
python3 -m mim install "mmcv==2.1.0"
python3 -m pip install "mmdet==3.2.0"
python3 -m pip install "mmengine>=0.10.6"
"""
import os
import pandas as pd
import cv2
from datetime import datetime
from autogluon.multimodal import MultiModalPredictor
import numpy as np
if __name__ == "__main__":
# Set single GPU
os.environ["CUDA_VISIBLE_DEVICES"] = "0"
Define paths
Other Prompts and I/O
Executer
If Success
Outputs
Output
predicted_masks
saved_model
results.csv
If Failed
Log & Errors
File "/opt/conda/lib/python3.12/site-packages/autogluon/multimodal/learners/ba
config = get_config(
File "/opt/conda/lib/python3.12/site-packages/autogluon/multimodal/utils/confi
config = apply_omegaconf_overrides(config, overrides=overrides, check_key_ex
File "/opt/conda/lib/python3.12/site-packages/autogluon/multimodal/utils/confi
raise KeyError(
KeyError: '"optimization.batch_size" is not found in the config. You may need to
Episodic Memory
Iteration Step T+1