

Morris Validation Project - File Structure Fix

Current Issues Identified

1. `test_model_architecture.py` contains source code instead of tests
2. Need to verify all files are in correct directories
3. Missing proper directory structure setup

Correct Project Structure

```
morris_validation/  
├── src/  
│   ├── __init__.py  
│   ├── model_architecture.py    # GPT transformer implementation  
│   ├── data_generation.py       # Random binary sequence generation  
│   ├── logging_utils.py        # Comprehensive logging system  
│   ├── checkpoint_manager.py    # Experiment state management  
│   └── memorization_metrics.py  # Morris memorization measurement  
├── tests/  
│   ├── __init__.py  
│   ├── test_model_architecture.py # Tests for transformer models  
│   ├── test_data_generation.py   # Tests for data generation  
│   ├── test_logging_utils.py     # Tests for logging system  
│   ├── test_checkpoint_manager.py # Tests for checkpointing  
│   └── test_memorization_metrics.py # Tests for memorization measurement  
├── logs/  
│   ├── experiments/  
│   ├── training/  
│   ├── checkpoints/  
│   ├── metrics/  
│   └── metadata/  
├── function_declarations.py      # Central function registry  
├── requirements.txt             # Python dependencies  
├── run_tests.py                 # Test runner script  
└── setup_project.py             # Project structure setup
```

Files to Create/Fix

1. Proper `model_architecture.py` (src/)

The uploaded `test_model_architecture.py` actually contains the source code

2. Correct test_model_architecture.py (tests/)

Need to create actual tests for the model architecture

3. Updated setup_project.py

Ensure it creates the complete structure