# PRUFIA Mimic Trait Heatmap Analyzer – Developer Integration Module

Version: v2.1 – Blue Chip

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Purpose: This module analyzes trait expression in uploaded mimic (AI/humanizer) documents using the full 7-layer PRUFIA scoring system. Results help calibrate mimic traps within the ReflexMatrix system.

## INPUT REQUIREMENTS

- A `.csv` file generated by the PRUFIA Extractor

- Fields must include: sf, sm, pf, eb, tt, mc, pgfi

## CORE LOGIC (Updated Plug-and-Play Code)

```python  
import pandas as pd  
  
# Load trait data  
data = pd.read\_csv("trait\_results.csv")  
  
# Define mimic trait suppression thresholds  
thresholds = {  
 "sf": 0,  
 "sm": 0,  
 "pf": 30,  
 "eb": 100,  
 "tt": 85,  
 "mc": 90,  
 "pgfi": 100  
}  
  
# Calculate match frequency  
heatmap\_results = {}  
for trait in thresholds:  
 match = data[data[trait] >= thresholds[trait]]  
 heatmap\_results[trait] = {  
 "Match %": round((len(match) / len(data)) \* 100, 2),  
 "Avg Value": round(data[trait].mean(), 2),  
 "Stability": "High" if len(match) / len(data) > 0.75 else "Medium"  
 }  
  
# Output result  
heatmap\_df = pd.DataFrame(heatmap\_results).T  
heatmap\_df.to\_csv("heatmap\_output.csv")  
```