





# Meme Coin Trader V2 - Improvements Roadmap

## Status Key

-  Complete
  -  In Progress
  -  Planned
  -  Needs Investigation
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## Phase 1: Discovery Pipeline (CURRENT PRIORITY)

### 1.1 Pre-Filter Rejection Rate

**Problem:** 97% of candidate wallets rejected at pre-filter (91 no\_sells, 46 no\_buys)

#### Root Cause Analysis:

- Token-centric extraction only sees trades FOR that specific token
- Wallet might buy \$MEME and sell \$PEPE - from \$MEME perspective, "no sells"
- Limited to 100-150 recent transactions per token

#### Solutions:

- ☐ Run diagnose\_prefilter.py to confirm hypothesis
- ☐ Implement wallet-centric verification before profiling
- ☐ OR: Aggregate wallet activity across ALL scanned tokens before pre-filter

**Files:** `hybrid_discovery.py`, `diagnose_prefilter.py`

### 1.2 Profiler Swap Detection

**Problem:** Profiler used `len(tokens) == 1` (too strict) **Solution:** Changed to `len(tokens) >= 1` to handle multi-hop swaps **Files:** `profiler.py`

### 1.3 Webhook Auto-Add

**Problem:** `run_discovery.py` didn't pass `multi_webhook_manager` to `Historian` **Solution:** Added webhook manager initialization to `run_discovery.py` **Files:** `run_discovery.py`

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## Phase 2: Strategy & Learning

### 2.1 Learning Loop

Added:

- Trade outcome analyzer - identifies WHY trades fail
- Parameter optimizer - adjusts stop/TP based on results
- Automatic strategy promotion - challenger beats champion = promotion
- Runs every 6 hours automatically

**Files:** `strategist_v2.py`, `master_v2.py`

## 2.2 Adaptive Parameters

**Added:**

- Stop loss optimization based on early stop-out rate
  - Take profit optimization based on peak analysis
  - Conviction threshold tuning based on win rates
  - Cluster weight adaptation (already existed, enhanced)
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## Phase 3: Execution Verification

### 3.1 Paper Trading Flow

**Need to verify:**

- ☐ Are paper trades actually opening when webhooks arrive?
- ☐ Query database for trade history and P&L
- ☐ Confirm position tracking and exit detection working

**Command to check:**

```
bash

sqlite3 swing_traders.db "SELECT COUNT(*), SUM(profit_sol) FROM tracked_positions WHERE source='paper'"
```

### 3.2 Exit Detection

- ☐ Verify trailing stops triggering correctly
  - ☐ Verify time-based exits working
  - ☐ Check if exit signals from tracked wallets being processed
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## Phase 4: Risk Management

### 4.1 Portfolio-Level Limits

**Not yet implemented:**

- ☐ Max exposure per token (avoid 5 wallets all buying same token)
- ☐ Max concurrent positions (hard cap)
- ☐ Correlation check (avoid similar meme tokens)
- ☐ Daily loss limit (stop trading if down X%)

## 4.2 Position Sizing

**Current:** Fixed formula based on conviction and regime **Needed:**

- ☐ Account for current exposure
  - ☐ Scale down as more positions open
  - ☐ Respect max portfolio percentage per trade
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## Phase 5: Monitoring & Dashboard

### 5.1 Performance Dashboard

**Needed:**

- ☐ P&L curve over time
- ☐ Open positions with live prices
- ☐ Win rate trend
- ☐ Recent trades table
- ☐ Wallet performance breakdown

**Options:**

- Simple HTML page served by Flask
- React artifact
- Grafana + SQLite export

### 5.2 Better Alerts

**Current:** Basic Telegram notifications **Needed:**

- ☐ Daily summary report
  - ☐ Weekly performance email
  - ☐ Alert on unusual activity (many stops hit, etc.)
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## Phase 6: Production Readiness

### 6.1 Graceful Recovery

**Not yet implemented:**

- ☐ State persistence on crash
- ☐ Webhook backlog handling
- ☐ ngrok reconnection handling
- ☐ Database backup strategy

## 6.2 Error Handling

- ☐ Better API error recovery
  - ☐ Circuit breakers for external services
  - ☐ Alerting on repeated errors
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## Quick Reference: Files Modified Today

File	Change
<code>profiler.py</code>	Fixed swap detection ( $\geq 1$ instead of $= 1$ )
<code>run_discovery.py</code>	Added webhook manager for auto-add
<code>strategist_v2.py</code>	Added full learning loop
<code>master_v2.py</code>	Added learning endpoints and background task
<code>diagnose_prefilter.py</code>	NEW - diagnostic tool for pre-filter issues

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## Next Steps

1. **Run `diagnose_prefilter.py`** to understand the pre-filter rejection issue
2. **Implement fix** based on findings (likely wallet-centric check)
3. **Verify paper trading** is working correctly
4. **Add portfolio risk limits** before going live
5. **Build simple dashboard** for monitoring