

Meme Coin Trader V2 - Improvements Roadmap

Status Key

- Complete
 - In Progress
 - Planned
 - Needs Investigation
-

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`

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)
-

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='pap'
```

3.2 Exit Detection

- Verify trailing stops triggering correctly
 - Verify time-based exits working
 - Check if exit signals from tracked wallets being processed
-

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
-

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.)
-

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
-

Quick Reference: Files Modified Today

File	Change
profiler.py	Fixed swap detection (≥ 1 instead of ≤ 1)
run_discovery.py	Added webhook manager for auto-add
strategist_v2.py	Added full learning loop
master_v2.py	Added learning endpoints and background task
diagnose_prefilter.py	NEW - diagnostic tool for pre-filter issues

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