# **XplainCrypto MindsDB Troubleshooting Guide**

# **Common Issues and Solutions**

## 1. Database Connection Issues

Issue: PostgreSQL Connection Failed

**Error**: Connection to crypto\_data\_db failed

## Symptoms:

- Database not appearing in SHOW DATABASES
- Connection timeout errors
- Authentication failures

#### Solutions:

```
-- Test PostgreSQL connectivity

SELECT * FROM information_schema.databases WHERE name = 'crypto_data_db';

-- If missing, recreate connection:

DROP DATABASE IF EXISTS crypto_data_db;

CREATE DATABASE crypto_data_db

WITH ENGINE = 'postgres',

PARAMETERS = []

"host": "localhost",

"port": 5432,

"database": "crypto_data",

"user": "mindsdb",

"password": "your_actual_password"

[];
```

## Checklist:

- [] PostgreSQL service is running
- -[] Database crypto\_data exists
- -[] User mindsdb has proper permissions
- [] Password is correct
- [] Network connectivity to PostgreSQL

Issue: API Connection Failed (CoinMarketCap, Dune, etc.)

Error: API authentication failed or Invalid API key

## Symptoms:

- API databases not created
- Authentication errors in logs
- Rate limit exceeded messages

#### Solutions:

```
-- Test API key validity by recreating connection

DROP DATABASE IF EXISTS coinmarketcap_db;

CREATE DATABASE coinmarketcap_db

WITH ENGINE = 'coinmarketcap',

PARAMETERS = {
        "api_key": "your_verified_api_key"
};

-- Test connection

SELECT * FROM information_schema.databases WHERE name = 'coinmarketcap_db';
```

## Checklist:

- [] API key is active and valid
- [] Billing is set up (for paid APIs)
- [] Rate limits not exceeded
- [] Service is not experiencing outages
- [] Key has required permissions

# 2. Al Engine Issues

## Issue: OpenAl Engine Creation Failed

**Error**: OpenAI authentication failed or Insufficient credits

## Symptoms:

- Engine not appearing in ML engines list
- API key errors
- Credit/billing issues

## Solutions:

```
-- Check if engine exists
SELECT * FROM information_schema.ml_engines WHERE name = 'openai_engine';
-- Recreate engine with verified key
DROP ML_ENGINE IF EXISTS openai_engine;
CREATE ML_ENGINE openai_engine
FROM openai
USING
    api_key = 'sk-your_verified_openai_key';
-- Test engine
CREATE MODEL test_openai
PREDICT response
USING
    engine = 'openai_engine',
   model_name = 'gpt-3.5-turbo',
    prompt_template = 'Say hello';
SELECT response FROM test_openai WHERE text = 'test';
DROP MODEL test_openai;
```

## Checklist:

- [] API key starts with sk- and is complete
- [] OpenAl account has sufficient credits
- [] Billing method is active

- [] API key has not expired
- [] Rate limits not exceeded

# Issue: Anthropic Engine Creation Failed

**Error**: Anthropic authentication failed

## Symptoms:

- Engine creation fails
- Invalid API key messages
- Model access denied

#### Solutions:

```
-- Recreate Anthropic engine

DROP ML_ENGINE IF EXISTS anthropic_engine;

CREATE ML_ENGINE anthropic_engine

FROM anthropic

USING

api_key = 'sk-ant-your_verified_anthropic_key';
```

## Checklist:

- -[] API key starts with sk-ant- and is complete
- [] Anthropic account has Claude access
- [] Billing is properly configured
- [] API key permissions are correct

## Issue: TimeGPT Engine Creation Failed

**Error**: TimeGPT authentication failed or Subscription required

## Symptoms:

- TimeGPT engine not created
- Subscription errors
- API access denied

## Solutions:

```
-- Recreate TimeGPT engine

DROP ML_ENGINE IF EXISTS timegpt_engine;

CREATE ML_ENGINE timegpt_engine

FROM timegpt

USING

api_key = 'your_verified_timegpt_key';
```

## Checklist:

- [] TimeGPT account is active
- [] API key is valid
- [] Subscription plan allows API access
- [] Rate limits not exceeded

# 3. Al Agent Issues

Issue: Agent Stuck in 'Training' Status

**Error**: Agent shows status = 'training' for extended periods

Symptoms:

- Agents not completing training
- Long wait times
- No progress updates

#### Solutions:

```
-- Check agent status

SELECT name, status, training_log FROM information_schema.models

WHERE name LIKE '%_agent';

-- If stuck for >5 minutes, recreate agent

DROP MODEL IF EXISTS stuck_agent_name;
-- Then re-run the agent creation script
```

## Checklist:

- [] Wait at least 3-5 minutes for complex agents
- [] Check if underlying AI engine is working
- [] Verify sufficient API credits
- [] Monitor MindsDB system resources

## **Issue: Agent Creation Failed with Errors**

**Error**: Agent shows status = 'error'

## Symptoms:

- Agent creation fails immediately
- Error messages in training\_log
- Engine dependency issues

#### Solutions:

## Checklist:

- [] Required AI engine exists and works
- [] Prompt template is properly formatted
- [] Model parameters are valid
- [] Sufficient API credits available

## 4. Performance Issues

**Issue: Slow Query Performance** 

Error: Queries taking too long to execute

## Symptoms:

- Timeouts on agent queries
- Slow database connections
- High resource usage

#### Solutions:

```
-- Check active connections
SHOW PROCESSLIST;

-- Optimize queries by limiting results
SELECT analysis FROM market_analysis_agent
WHERE symbol = 'BTC'
LIMIT 1;

-- Check system resources
SELECT * FROM information_schema.jobs;
```

## Checklist:

- [] Limit query result sets
- [] Check MindsDB system resources
- [] Monitor API rate limits
- [] Optimize database indexes

## **Issue: Memory or Resource Errors**

**Error**: Out of memory or Resource exhausted

## Symptoms:

- System crashes
- Failed model creation
- Connection timeouts

## Solutions:

- Restart MindsDB service
- Reduce concurrent operations
- Increase system resources
- Optimize model parameters

# 5. Network and Connectivity Issues

**Issue: External API Timeouts** 

**Error**: Connection timeout or Network unreachable

## Symptoms:

- API connections fail intermittently
- Slow response times
- Service unavailable errors

## Solutions:

```
-- Test basic connectivity

SELECT version();

-- Check handler availability

SELECT name, import_success FROM information_schema.handlers

WHERE type = 'data';

-- Retry connection creation
-- (Re-run database connection scripts)
```

## Checklist:

- [] Internet connectivity is stable
- [] Firewall allows outbound connections
- [] External services are operational
- [] DNS resolution is working

## 6. Data and Schema Issues

Issue: PostgreSQL Schema Not Created

Error: Tables don't exist in crypto\_data database

## Symptoms:

- Schema queries fail
- Missing tables
- Permission errors

#### Solutions:

```
-- Check if schema exists

SELECT schema_name FROM information_schema.schemata

WHERE schema_name = 'crypto_data';

-- Create schema if missing

CREATE SCHEMA IF NOT EXISTS crypto_data;

-- Re-run table creation script
```

## Checklist:

- [] PostgreSQL connection is working
- [] User has CREATE privileges
- [] Database has sufficient space
- [] Schema permissions are correct

# **Emergency Recovery Procedures**

# **Complete System Reset**

If multiple components are failing:

```
-- 1. Drop all custom databases
DROP DATABASE IF EXISTS crypto_data_db;
DROP DATABASE IF EXISTS coinmarketcap_db;
DROP DATABASE IF EXISTS defillama_db;
DROP DATABASE IF EXISTS blockchain db;
DROP DATABASE IF EXISTS dune_db;
-- 2. Drop all ML engines
DROP ML_ENGINE IF EXISTS openai_engine;
DROP ML_ENGINE IF EXISTS anthropic_engine;
DROP ML_ENGINE IF EXISTS timegpt_engine;
-- 3. Drop all agents
DROP MODEL IF EXISTS crypto_prediction_agent;
DROP MODEL IF EXISTS market_analysis_agent;
DROP MODEL IF EXISTS risk_assessment_agent;
DROP MODEL IF EXISTS sentiment_analysis_agent;
DROP MODEL IF EXISTS anomaly_detection_agent;
DROP MODEL IF EXISTS master_intelligence_agent;
-- 4. Restart deployment from step 1
```

## **Partial Component Reset**

For specific component issues:

```
-- Reset specific database connection

DROP DATABASE IF EXISTS problematic_db;
-- Re-run specific database creation script

-- Reset specific AI engine

DROP ML_ENGINE IF EXISTS problematic_engine;
-- Re-run specific engine creation script

-- Reset specific agent

DROP MODEL IF EXISTS problematic_agent;
-- Re-run specific agent creation script
```

# **Getting Help**

## MindsDB Resources

- Documentation: https://docs.mindsdb.com/
- Community: https://mindsdb.com/community
- GitHub Issues: https://github.com/mindsdb/mindsdb/issues

## Service-Specific Support

- OpenAI: https://help.openai.com/
- Anthropic: https://support.anthropic.com/
- CoinMarketCap: https://coinmarketcap.com/api/support/

# **Diagnostic Information to Collect**

When seeking help, provide:

- MindsDB version: SELECT version();

- Error messages from logs
- System configuration details
- Steps to reproduce the issue
- API service status and limits

## **Prevention Best Practices**

# **Regular Maintenance**

- Monitor API usage and costs
- Check system resource usage
- · Verify all connections weekly
- Update API keys before expiration
- · Monitor external service status

# **Monitoring Setup**

Remember: Most issues are related to API keys, network connectivity, or resource constraints. Always verify these basics first!