PROJECT HANDOVER DOCUMENT: MVP v1.0

PROJECT: SIGNAL GENIUS AI + TELEGRAM BOT INTEGRATION

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1. PROJECT OVERVIEW

Signal Genius AI is a **Minimum Viable Product (MVP)** designed to deliver real-time trading signals. The system serves as a **strategic decision-support tool**, providing high-probability market references to assist traders in their execution process.

The engine is built upon the **Quantix AI Core**, utilizing a sophisticated **Rule-based + Real Market Data** architecture. This framework ensures high scalability for future AI/Machine Learning (ML) integrations in subsequent development phases

> ⚠️ ***IMPORTANT DISCLAIMER:*** *Signals are for* ***Reference Purposes Only*** *to assist in trader decision-making. This does not constitute financial or investment advice*

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2. MVP OBJECTIVES

- **Availability:** Ensure a consistent flow of valid signals for users at all times
- **Data Integrity:** Utilize high-fidelity, real-time market data via the **TwelveData API**
- **Transparency:** Provide clear visibility on key metrics including **Entry/TP/SL**, **Confidence Scores**, **Strategies**, and **Signal Validity**
- **Seamless Interaction:** Enable direct user engagement with the Quantix AI Core through a dedicated Telegram interface

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3. TECHNICAL ARCHITECTURE

3.1 Core Components

- **User Interface:** Interactive Telegram Bot
- **Backend Infrastructure:** API handling Telegram Webhooks and the Quantix AI Signal

Engine

- **Data Provider:** Real-time integration with TwelveData API

3.2 Operational Workflow

1. **Request:** User triggers the /signal command
2. **Transmission:** Telegram forwards the webhook to the Backend
3. **Processing:**
    - Backend fetches live market data
    - Data is processed through the Quantix AI Core Rule Engine
    - A Signal JSON object is generated
4. **Delivery:** The signal is rendered into professional Markdown format and delivered back to the user via Telegram

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4. TELEGRAM USER GUIDE (COMMANDS)

- **/start**: Initializes the bot and displays the command menu
- **/signal**: Generates the most recent high-probability market reference
    - **Output includes:** Asset pair, Timeframe, Direction (BUY/SELL/STRONG), Entry/TP/SL, Confidence score, and Strategy used
- **/stats**: Displays basic performance analytics (MVP Placeholder for future expansion)
- **/help**: Provides comprehensive user instructions

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5. SIGNAL FORMAT SPECIFICATION

Example Output:

📊 EUR/USD | M15
🟢 BUY (STRONG)

🎯 Entry: 1.16104
💰 TP: 1.16166
🛑 SL: 1.16057

⭐ Confidence: 75%
🧠 Strategy: EMA Trend + RSI + ATR
⏳ Validity: 44 / 45 min
🌡️ Volatility: 0.027% (Low)

⚠️ Educational purpose only

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6. SIGNAL RULE ENGINE (MVP)

Current Strategies:

- **EMA Trend:** Identifies the primary market direction
- **RSI:** Evaluates overbought and oversold conditions
- **ATR:** Calculates volatility-based TP/SL levels

Confidence Scoring Matrix:

Parameter	Weighted Score
Confirmed Trend	+30%
RSI Alignment	+25%
Low Volatility Context	+20%
Noise Filtering	+10%
Final Confidence Score: 0–100% aggregate	

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7. PROJECT STATUS & CHECKPOINT

- ✅ **Bot Status:** @signal_genius_ai_bot is fully operational and stable
- ✅ **Formatting:** Signals adhere strictly to professional trading standards
- ✅ **Logic:** Refresh and Validity logic are successfully integrated
- ✅ **Data:** Verified real-time signal delivery
- ✅ **Web Dashboard:** Access live at https://9dpi.github.io/signal-genius-ai/index.html

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8. MVP SCOPE LIMITATIONS

- Historical backtesting is not yet integrated
- Individual user personalization features are pending
- Signal history database storage is not included in v1.0

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9. DEVELOPMENT ROADMAP (PHASE 2)

- Implementation of **AI/ML-based confidence scoring**
- Expansion to **multi-symbol and multi-timeframe** scanning
- Signal **performance tracking and historical logs**
- **Tiered subscription** and user permission management

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10. HANDOVER ASSETS

1. Full Source Code
2. Environment Configuration File (.env)
3. Comprehensive Operational Documentation
4. Administrative Ownership of the Telegram Bot

Document Version: Signal Genius AI - MVP Checkpoint v1.0

Handover Date: January 16, 2026
