AI Model Training Docs

User Guide for AIAlgoTradeHits.com

1. Introduction

The AI Model Training Docs feature allows you to upload custom documents to train and enhance the Gemini 2.5 Pro AI model. By providing your own trading strategies, technical analysis guides, and market research documents, the AI learns from your expertise and provides more personalized, accurate trading insights tailored to your investment approach.

2. Understanding the AI Service Status Panel

The status panel at the top of the screen shows the current state of AI services:

Component	Status Indicator	Description
Vertex AI	Green = Available	Google Cloud AI platform connection status
Model	gemini-2.5-pro	The AI model being used for training and inference
Training Bucket	Green/Red	Cloud Storage bucket for storing training documents
Training Documents	Count	Number of documents currently uploaded

3. Uploading Training Documents

3.1 Supported File Formats

The system accepts the following document types:

- **PDF** - Research papers, strategy guides, market reports
- **DOC/DOCX** - Microsoft Word documents
- **TXT** - Plain text files with trading notes or strategies
- **CSV** - Structured data like historical trades or indicators

- **JSON** - Structured trading rules or configuration files
- **MD** - Markdown formatted documentation

3.2 Step-by-Step Upload Process

Step 1: Click the 'Choose File' button to select your document

Step 2: Select a Category from the dropdown (e.g., General, Technical Analysis, Strategies)

Step 3: Or create a new category by typing in the 'Create New Category' field

Step 4: Add an optional description to help identify the document later

Step 5: Click the blue 'Upload Document' button

4. Organizing Documents by Category

Categories help organize your training documents and allow you to train the AI on specific topics. Recommended categories include:

Category	What to Include
Technical Analysis	Candlestick patterns, indicators (RSI, MACD), chart patterns
Trading Strategies	Entry/exit rules, position sizing, risk management
Market Research	Sector analysis, earnings reports, economic indicators
Risk Management	Stop-loss strategies, portfolio allocation, hedging
Crypto Trading	Blockchain analysis, DeFi protocols, tokenomics
Options Strategies	Greeks, spreads, volatility trading
Fundamental Analysis	Financial statements, valuation methods, ratios

5. Training the AI Model

Once you have uploaded your documents, you can train the Gemini 2.5 model to learn from them:

5.1 Training Scope Options

- **All Categories** - Train on all uploaded documents
- **Specific Category** - Train only on documents in a selected category

5.2 How to Start Training

Step 1: Select the Training Scope from the dropdown

Step 2: Click the green 'Start Training' button

Step 3: Wait for the training to complete (may take a few moments)

Step 4: The AI will now use your documents to enhance its responses

> **Note:** Training will process documents and update the AI's context. After training, the AI will reference your uploaded materials when providing trading insights, pattern recognition, and price predictions.

6. Managing Training Documents

The Training Documents section at the bottom shows all uploaded files with the following information:

- **Name** - The filename of the uploaded document
- **Category** - The category assigned to the document
- **Size** - File size in KB
- **Type** - The MIME type (e.g., text/plain, application/pdf)
- **Updated** - Date the document was last modified
- **Actions** - Delete button to remove the document

7. Best Practices for Effective Training

7.1 Document Quality

- Use clear, well-structured documents with proper formatting
- Include specific examples and case studies
- Avoid duplicate content across multiple documents
- Keep file sizes reasonable (under 10MB per document)

7.2 Content Recommendations

- Define your trading rules with clear entry/exit criteria
- Include indicator settings and thresholds you use
- Document your risk management approach
- Add examples of successful and failed trades with analysis
- Include your market analysis methodology

7.3 Training Frequency

- Retrain after uploading new significant documents
- Update documents when your strategies evolve
- Remove outdated or irrelevant documents before retraining

8. Example Documents to Upload

Here are examples of documents that can significantly improve AI insights:

Document Type	Example Content
OHLCV Guide	Explanation of Open, High, Low, Close, Volume and their significance
RSI Strategy	Your custom RSI settings, overbought/oversold thresholds, divergence rules
Candlestick Patterns	Pattern definitions with entry/exit rules for each
Sector Analysis	How you analyze sector rotation and momentum
Risk Rules	Your position sizing formula, max drawdown rules, stop-loss methodology
Trade Journal	Historical trades with reasoning and lessons learned

9. Troubleshooting

Issue	Solution

Training Bucket: Not Found	Contact admin to create the GCS bucket: aialgotradehits-training-docs
Upload fails	Check file size (<10MB) and format (PDF, DOC, TXT, CSV, JSON, MD)
Training takes too long	Large documents may take several minutes; try smaller batches
AI not using my documents	Ensure training completed successfully; retrain if needed
Vertex AI: Unavailable	Check internet connection; service may be temporarily down