# Gemini AI Integration Report

## AIAlgoTradeHits Trading Platform

Date: December 3, 2025

## Executive Summary

This document outlines the current state of Google Gemini AI integration for the AIAlgoTradeHits trading platform, issues encountered during the upgrade process, and recommendations for achieving Gemini 3 Pro access.

## 1. Project Information

| Field | Value |
|---|---|
| GCP Project ID | aialgotradehits |
| Project Number | 1075463475276 |
| Region | us-central1 |
| Platform | Google Cloud Functions Gen2 |
| API Used | Google Generative AI SDK (API Key) |

## 2. Current AI Functions

**Smart Search:** https://us-central1-aialgotradehits.cloudfunctions.net/smart-search
Model: gemini-2.0-flash | Status: Working

**AI Trading Intelligence:** https://us-central1-aialgotradehits.cloudfunctions.net/ai-trading-intelligence
Model: gemini-2.0-flash | Status: Working

## 3. Original Request

Goal: Upgrade all AI services to use Google Vertex AI with Gemini 3 Pro for enhanced trading intelligence capabilities.

# 4. Issues Encountered

### 4.1 Vertex AI Access Denied

```
Error: 404 Publisher Model not found or project does not have access
```

The aialgotradehits project does not have access to Vertex AI Gemini models.

### 4.2 Gemini 1.5 Models Not Available

```
Error: 404 models/gemini-1.5-pro not found for API version v1beta
```

When using Google Generative AI SDK (API key), only Gemini 2.x models are available.

### 4.3 Available Models (via API Key)

```
gemini-2.5-flash, gemini-2.5-pro, gemini-2.0-flash, gemini-2.0-flash-001,
gemini-2.0-flash-lite, gemini-2.0-pro-exp, gemini-3-pro-preview (Preview
only)
```

# 5. Request for Google Support

### 5.1 Enable Vertex AI Access

1. Enable Vertex AI API for project aialgotradehits
2. Grant Gemini model access via Vertex AI
3. Add aiplatform.user role to service accounts

### 5.2 Gemini 3 Pro Access Questions

1. Is Gemini 3 Pro available for production use?
2. What are the requirements to access Gemini 3 Pro?
3. Is there a waitlist or application process?
4. What are the pricing differences vs Gemini 2.x?

# 6. Contact Information

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