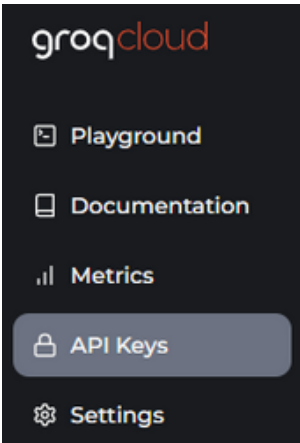# This is the easiest way to build an AI agent for FP&A and Finance!

BY CHRISTIAN MARTINEZ

Step ↓

Result ↓

1) Get Your Free API Key from Groq

groqcloud
- ▢ Playground
- ▣ Documentation
- ◧ Metrics
- 🔒 API Keys
- ⚙ Settings

Visit https://console.groq.com/keys to get your free API key.

Creating an account takes just a minute!

Create API Key ✕
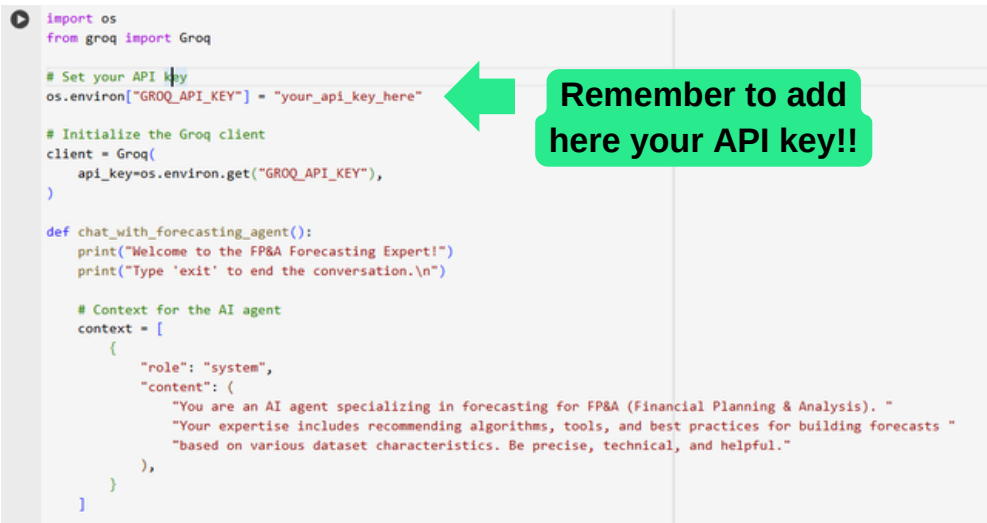Enter a display name for the key (max 50 characters)
[ ]
Submit

2) Set Up in Google Colab

Comment or message me and I can send you the exact code I used.

You only need to change it based on the AI Agent you want to create

And you can more Python code for other AI Agents from the LLM of your choice.

```
import os
from groq import Groq

# Set your API key
os.environ["GROQ_API_KEY"] = "your_api_key_here"

# Initialize the Groq client
client = Groq(
    api_key=os.environ.get("GROQ_API_KEY"),
)

def chat_with_forecasting_agent():
    print("Welcome to the FP&A Forecasting Expert!")
    print("Type 'exit' to end the conversation.\n")

    # Context for the AI agent
    context = [
        {
            "role": "system",
            "content": (
                "You are an AI agent specializing in forecasting for FP&A (Financial Planning & Analysis). "
                "Your expertise includes recommending algorithms, tools, and best practices for building forecasts "
                "based on various dataset characteristics. Be precise, technical, and helpful."
            ),
        }
    ]
```

Remember to add here your API key!!

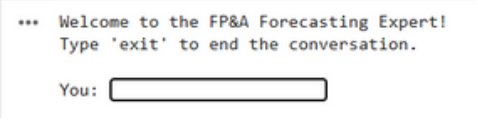### 3) Test Your AI Agent for Finance

Simply hit Ctrl+Enter

Then the AI Agent will start to work and you can interact with it inside G. Colab.

That's it!
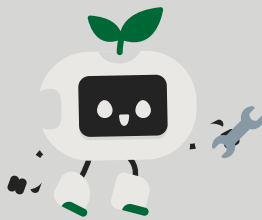
Congratulations! You created your first AI Agent.

Congrats!

```
••• Welcome to the FP&A Forecasting Expert!
    Type 'exit' to end the conversation.
    You: [          ]
```

Common Troubleshooting

1) Error: ModuleNotFoundError: No module named 'groq'
Reason:You did not install Groq
Fix it by: Make sure to run this code first: !pip install groq

2) Error: AuthenticationError: Error code: 401 - {'error': {'message': 'Invalid API Key', 'type': 'invalid_request_error', 'code': 'invalid_api_key'}}
Reason: You did not add your API key
os.environ["GROQ_API_KEY"] = "your_api_key_here" → INCORRECT
os.environ["GROQ_API_KEY"] = "gskxxxxxxxxxxxxx" → CORRECT

Follow Christian Martinez for more Practical Use Cases of AI in FP&A