

D. Saul Jameson

<https://www.linkedin.com/in/dsauljameson/>

```
import functions_framework
import requests
from google.cloud import bigquery

@functions_framework.http
def fetch_news(request):
    try:
        # API Key (Directly in Code)
        api_key = "Redacted"

        categories = ["business", "entertainment", "general", "health", "science", "sports", "technology"]

        # BigQuery Setup
        client = bigquery.Client()
        dataset_id = "news_dataset" # No need for project ID
        table_id = "news_headlines"
        table_ref = client.dataset(dataset_id).table(table_id)

        rows_to_insert = []

        for category in categories:
            url = f"https://newsapi.org/v2/top-headlines?country=us&category={category}&pageSize=100"
            headers = {
                "X-API-Key": api_key,
                "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/537.36"
            }

            response = requests.get(url, headers=headers)
            response.raise_for_status()

            news_data = response.json()

            for article in news_data.get("articles", []):
                rows_to_insert.append({
                    "source": article.get("source", {}).get("name", "Unknown"),
                    "title": article.get("title", ""),
                    "description": article.get("description", ""),
                    "url": article.get("url", ""),
                    "published_at": article.get("publishedAt", ""),
                    "category": category # Add category column
                })

        # Insert into BigQuery
        if rows_to_insert:
            errors = client.insert_rows_json(table_ref, rows_to_insert)
            if errors:
                return f"BigQuery insert error: {errors}", 500

        return {"message": "Data successfully inserted into BigQuery", "rows_inserted": len(rows_to_insert)}, 200

    except requests.exceptions.RequestException as e:
        return f"API request error: {str(e)}", 500
    except Exception as e:
        return f"Error: {str(e)}", 500
```

