Problem Statement

Space launch search API: Create a data ingestion pipeline and a search API. The application should be able to ingest the complete data from the public API from spaceflightnews.net. You will have to fetch the list of all articles, insert the data into the Elastic Search. Then create a python REST API which takes a keyword and returns the list of the articles which contains the keyword. Make required assumptions and add it to the README.md file when submitting the solution.

Public API:

  https://api.spaceflightnewsapi.net/v3/documentation#/Article/get_articles

Example Public API:

  curl -X 'GET' 'https://api.spaceflightnewsapi.net/v3/articles' -H 'accept: application/json'

Elastic Search:

  Use the docker to create a new elastic search instance. Provide a bash script to start the elastic search docker instance.

Python API:

  You can use ANY popular python REST framework to create the API. It should have API with specifications as given below:

/search

  HTTP GET

  parameters: q=<string>

  Example: curl -X 'GET' 'http://localhost:5010/search?q=abc'

Artefacts to be submitted:

1. Code:

  - Data ingestion code

  - Search API service

- Service code
- Build script and Dockerfile
- Service launch script

  - Elasticsearch setup script

2. README.md: Should include instructions to build/run all services and assumptions made during the development.

Evaluation criteria:

1. Code structure and clean code

2. Focus on the correctness of the application

3. Use of OOPs concept in implementation and handling exceptions

4. Keeping things simple and configurable

All the Best and Happy Coding! 😊