DevOps RAG Workflow Architecture

1. Data Sources

Git Repositories
e.g., k8s-deployment.yaml

Confluence / Wiki
e.g., DB Failover Runbook

Jira / Ticketing
e.g., Incident Ticket

Logging & Monitoring
e.g., Application Log

2. Ingestion & Preprocessing

Data Connectors

Data Cleaning

Chunking

3. Embedding & Indexing

Embedding Model

Vector Database
(e.g., Pinecone, Weaviate)

4. User Query & Retrieval

USER

—Query→

User Interface

Query Embedding

Similarity Search

5. Augmentation & Generation

Retrieved Context

Context Augmentation

Augmented Prompt

Large Language Model (LLM)
(e.g., GPT-4, Llama 3)

6. Response Delivery

Answer

Generated Response