

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: neuro-doc-api
  labels:
    app: neuro-doc
spec:
  replicas: 2
  selector:
    matchLabels:
      app: neuro-doc
  template:
    metadata:
      labels:
        app: neuro-doc
    spec:
      containers:
        - name: api-gateway
          image: youruser/neuro-doc-api:latest
          ports:
            - containerPort: 8080
          env:
            - name: VLLM_URL
              value: "http://vllm-service:8000/v1"
          resources:
            requests:
              memory: "512Mi"
              cpu: "500m"
            limits:
              memory: "1Gi"
              cpu: "1000m"
---
# Example vLLM Service (GPU Pod)
apiVersion: apps/v1
kind: Deployment
metadata:
  name: vllm-inference
spec:
  replicas: 1
  selector:
    matchLabels:
      app: vllm
  template:
    metadata:
      labels:
        app: vllm
    spec:
      containers:
```

```
- name: vllm-engine
  image: vllm/vllm-openai:latest
  command: ["python3", "-m",
"vllm.entrypoints.openai.api_server"]
  args: ["--model", "mistralai/Mistral-7B-v0.1"]
  resources:
    limits:
      nvidia.com/gpu: 1
```