**Project – Alon Najman – 08-07-2025**

1. **Prerequisites**: Install docker , k3s , helm, git .

<https://github.com/ALon911/python-flask-proj1.git>

1. **Deploy PostgreSQL via Helm (there is a SQLite fallback so its optional)**

Add Bitnami Helm repo and install PostgreSQL:  
  
```bash  
helm repo add bitnami https://charts.bitnami.com/bitnami  
helm repo update  
**helm install my-postgresql bitnami/postgresql \  
 --set auth.username=root \  
 --set auth.password=yourpassword \  
 --set auth.database=flask\_mvc\_db**  
```  
Replace `yourpassword` with a secure password.

1. **Update your values.yaml**

Set your database connection info to match the PostgreSQL install:  
  
```yaml  
database:  
 host: my-postgresql.default.svc.cluster.local  
 user: root  
 password: yourpassword  
 name: flask\_mvc\_db  
secretKey: your-secret-key-here  
```

**“cd” into the following directory:**

Python-Flask-AlonNajman\Python-Flask\kubernetes-using-helm

* **Command to deploy on kubernetes:**

helm install python-flask-proj1 ./python-flask-proj1