Abstract

• **Project Title:** "AI-Powered Cloud Resource Optimization and Management System"

• AI-Powered → The system uses Artificial Intelligence (like prediction or decision logic).

• Cloud Resource Optimization → It monitors and optimizes cloud performance.

• Management System → It represents cloud service management — controlling, analyzing, and improving usage.

• **Key Features**

1. **Real-Time Cloud Monitoring** – Track CPU, storage, and bandwidth metrics.

2. **AI-Based Prediction** – Use simple ML logic to predict future resource load or cost.

3. **Smart Optimization Suggestions** – AI recommends scaling up/down resources.

4. **Interactive Dashboard –** Graphical visualization using Chart.js or Plotly.

5. **Cloud Deployment** – Host app using Firebase, AWS, or Render.