Sample Project Proposal: AI-Powered Task Management Platform

Project Title: MyCrewManager — Modular AI-Powered Task Management System

Objective:
 To develop a scalable web-based platform that enables project managers to assign tasks, monitor progress, and receive AI-generated recommendations for team coordination and risk mitigation.

Scope:

- Backend: Django REST API with PostgreSQL
- Frontend: React-based dashboard with real-time updates
- AI Integration: Hugging Face models for task analysis and recovery planning
- OCR Support: Donut model for parsing uploaded documents

Team Composition:

- 1 Backend Developer (Python, Django, DRF)
- 1 Frontend Developer (React, Tailwind)
- 1 AI Engineer (LLM orchestration, prompt design)
- 1 Project Manager

Timeline:
 4 weeks total

- Week 1: Setup, schema design, and API scaffolding
- Week 2: Frontend integration and basic task flows
- Week 3: AI module integration and reviewer generation
- Week 4: Testing, documentation, and deployment

Resources:

- 1 GPU-enabled machine (RTX 4050, 6GB VRAM)
- GitHub repo with CI/CD pipeline
- Access to Hugging Face and LangChain libraries
- Internal dataset of 50+ project proposals for fine-tuning

Risks:

- Limited VRAM may restrict model size and batch inference
- Onboarding documentation is incomplete for new team members
- OCR parsing may fail on low-quality scans

● Timeline may slip if AI module integration requires refactoring

Success Criteria:

● Functional task assignment and tracking
● AI assistant generates actionable recommendations per proposal
● Team onboarding is smooth and reproducible
● Deployment is stable and documented