

WEEKLY PROGRESS REPORT – WEEK 01

Name: Vishakha Kumari

Domain: Full Stack Development

Project Title: *AI Integrated E-Commerce Platform*

Organization: UCT

Week: 01

1. OVERVIEW

This week focused on setting up and deploying the core modules of an AI-integrated e-commerce platform, including frontend, backend, and admin panel, as part of the internship project under UCT.

2. TASKS COMPLETED & ACHIEVEMENTS

- Designed and developed the frontend using React for customer interaction.
- Implemented backend APIs using Node.js and Express.
- Integrated MongoDB for product, user, and order data management.
- Developed an admin panel for managing products and orders.
- Integrated AI-powered features to improve product discovery and user interaction, simulating real-world e-commerce personalization.
- Successfully deployed frontend and admin modules.

3. CHALLENGES & HURDLES

- Faced issues while connecting frontend with backend APIs.
- Encountered deployment errors related to environment variables.
- Initial difficulty in integrating AI responses smoothly into UI.

4. LEARNING RESOURCES

- React and Node.js official documentation
- MongoDB Atlas documentation
- Online tutorials and references for AI API integration

5. SOLUTIONS & APPROACH

- Resolved API connection issues by correcting CORS and API routes.
- Fixed deployment errors by properly configuring environment variables.
- Improved AI response handling and optimized API calls.

6. LESSONS LEARNED

- Gained hands-on experience with full-stack project architecture.
- Learned how AI features are integrated into real-world applications.
- Improved debugging, deployment, and system integration skills.
- Understood the importance of clean architecture and documentation.
- Learned how production-level deployment differs from local development and how to handle real-world integration issues.

7. PLAN FOR NEXT WEEK

- Enhance AI recommendation features.
- Improve UI/UX of the platform.
- Add performance and security optimizations.

Outcome: Successfully delivered a fully functional, deployed AI-integrated e-commerce platform with separate frontend, backend, and admin modules.