Final Presentation Meeting Report

Prompt Engineering Research Internship – Week 4

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Meeting Overview

The final presentation marked the culmination of Weeks 1 to 3 deliverables, where Team 4 presented a strategic AI Integration Blueprint designed for Excelerate's virtual learning ecosystem. The session was focused on research findings, tool evaluation, and tailored recommendations that align with Excelerate's goals.

Meeting Agenda

1. Introduction to Prompt Engineering
2. Summary of Research Findings
3. Comparative Analysis of AI Tools
4. Integration Strategy
5. Feasibility Study
6. Practical Recommendations
7. Future Roadmap
8. Q&A + Final Reflections

Key Highlights

Introduction

- Prompt engineering was defined as the skill of crafting prompts that generate useful, accurate, and creative responses from AI models.
- Emphasis was placed on how this skill connects human thinking with AI capabilities, especially within digital education.

Research Summary

- Focused on AI tools that support interactive, scalable learning.
- Tools were compared for real-world applications, integration capabilities, and user feedback.
- Tools were mapped to Excelerate initiatives like courses, events, competitions, and internships.

Comparative Tool Analysis

Four tools were reviewed:

- **ChatGPT**: Best for content generation, interactive responses.

- **Claude**: Ideal for ethical, real-time conversations.

- **Gemini**: Strong for gamification and Google ecosystem.

- **DeepSeek**: Effective for data analysis and learning dashboards.

Each tool was evaluated based on:

- Ease of use

- Cost

- Scalability

- Best use case

Integration Strategy

Tools were mapped to specific Excelerate programs:

Tool	Integration Focus	Expected Outcome
ChatGPT	Course creation (lessons/quizzes)	Faster, smarter content delivery
Claude	Live events	Real-time Q&A and engagement
Gemini	Competitions/gamification	Learner motivation & milestone tracking
DeepSeek	Internships	Analytics dashboards, mentorship support

Feasibility Study

- Evaluated compatibility with existing platforms like Moodle.

- Addressed limitations like API caps, training needs, and hosting challenges.

- Provided clear solutions such as modular onboarding and cloud hosting.

Practical Recommendations

- Use AI tools for content, gamification, and ethical conversations.

- Leverage DeepSeek for analytics and automation.

- Encourage staff training on prompt customization.

Future Roadmap

- **Phase 1**: ChatGPT and Claude for content and events

- **Phase 2**: Gemini for gamification and experimentation

- **Phase 3**: DeepSeek for personalized dashboards

Final Reflections

Team 4 concluded by expressing gratitude to the Excelerate team and mentors, especially Director **Priscilla Ojo** and Mentor **Jerry Ojimadu**, for their support throughout the internship.

"This journey not only strengthened our technical and research capabilities, but also helped us grow in collaboration, creativity, and confidence."

Outcome

The meeting successfully:

- Presented end-to-end research and tool evaluation.

- Proposed feasible, strategic AI integrations.

- Showed clear alignment between technology and Excelerate's learning goals.