

2. CoffeeBeans Consulting – AI Digital Transformation Proposal

Prepared For: Riverside Public Library

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1. Introduction & Executive Summary

Riverside Public Library is looking to modernize its cataloging and user experience using AI-driven tools. CoffeeBeans Consulting proposes an intelligent classification and recommendation system to automate metadata tagging, facilitate advanced search, and deliver personalized reading recommendations for patrons.

2. Background & Objectives

- **Challenges:** Manual cataloging is time-consuming; limited personalized suggestions for readers.
- **Objectives:**
 - Accelerate cataloging with automated classification.
 - Enhance user satisfaction with AI-driven reading recommendations.
 - Improve library staff efficiency, allowing focus on community outreach and educational programs.

3. Solution Overview

1. **Automated Cataloging:** Use natural language processing (NLP) models to generate and tag metadata for new arrivals.
2. **Smart Search:** Implement an AI-powered search function that understands synonyms, contexts, and user intent.
3. **Reader Recommendations:** Deploy a recommendation engine based on borrowing history, genre preferences, and popular trends.

4. Implementation Phases

- **Phase 1 – Data Assessment:** Evaluate existing catalog structure, metadata standards, and user borrowing data.
- **Phase 2 – Model Development:** Train NLP and recommendation models using library-specific data.
- **Phase 3 – Integration:** Implement the AI tools into the library’s existing system (e.g., Koha, Follett).
- **Phase 4 – Testing & Staff Training:** Conduct user acceptance testing (UAT) and train librarians on system operations.

5. Timeline & Deliverables

Milestone	Duration	Deliverables
Requirement Gathering	3 weeks	Cataloging schema, user behavior insights

AI Model Development	5 weeks	Working NLP & recommender prototypes
Integration	4 weeks	Full system integration, pilot tests
Go-Live & Training	2 weeks	Production launch, staff training

6. Pricing & Assumptions

- **Total Estimated Cost:** \$90,000 – \$110,000
- **Assumptions:**
 - Timely access to metadata and borrowing history.
 - Adequate IT infrastructure and support from library staff.

7. Team Composition

- **Sarah Johnson, Engagement Lead:** Experienced in digital transformation for public institutions.
- **David Roberts, NLP Specialist:** Focus on text analytics and classification systems.
- **Samantha Lee, Integration Engineer:** Library management systems integration.

8. Risk Assessment & Mitigation

- **Data Privacy:** Ensure compliance with local regulations regarding patron data.
- **Adoption Risk:** Provide thorough staff training and user guides to boost adoption rates.

9. References

- **Metro City Library:** Deployed a similar AI-driven cataloging solution, reducing cataloging time by 30%.

10. Next Steps

1. **Finalize Project Scope:** Sign off on requirements and success metrics.

2. **Kickoff:** Officially commence Phase 1 with stakeholder interviews.
3. **Regular Checkpoints:** Weekly status calls to ensure alignment.

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