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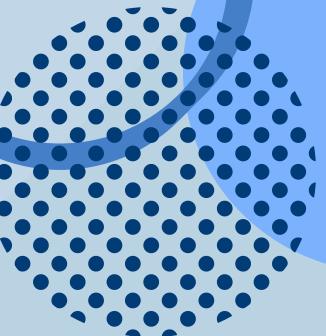
OPTIMIZING LIBRARY BORROWING PATTERNS WITH AI-POWERED BOOK RECOMMENDATIONS



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PROBLEM STATEMENT

Libraries face challenges in optimizing book circulation and providing personalized recommendations. Leveraging AI-driven analysis of borrowing trends can enhance resource allocation, improve user engagement, and support data-driven decision-making.



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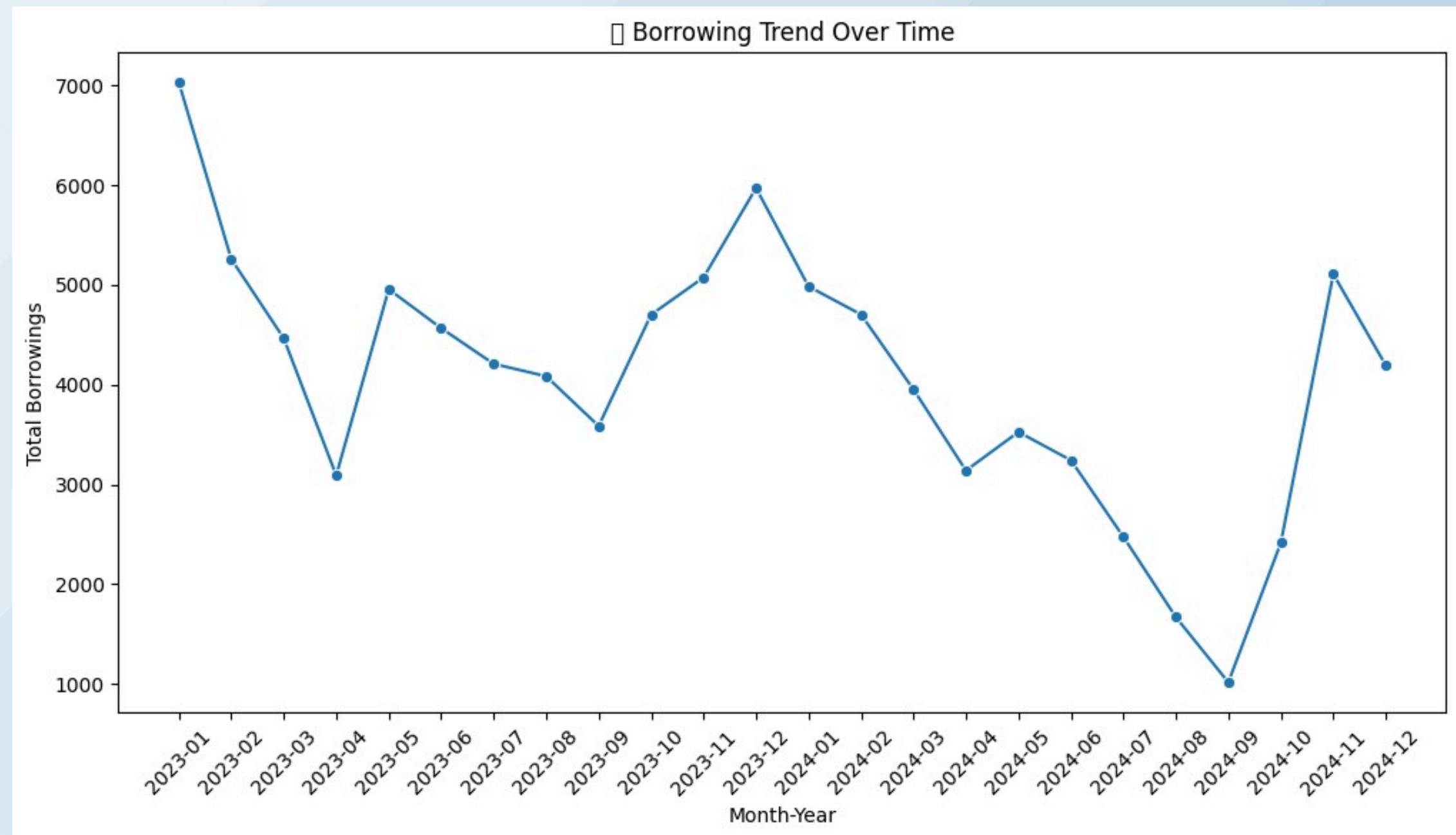


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BORROWING TRENDS OVER TIME

□ Borrowing Trend Over Time

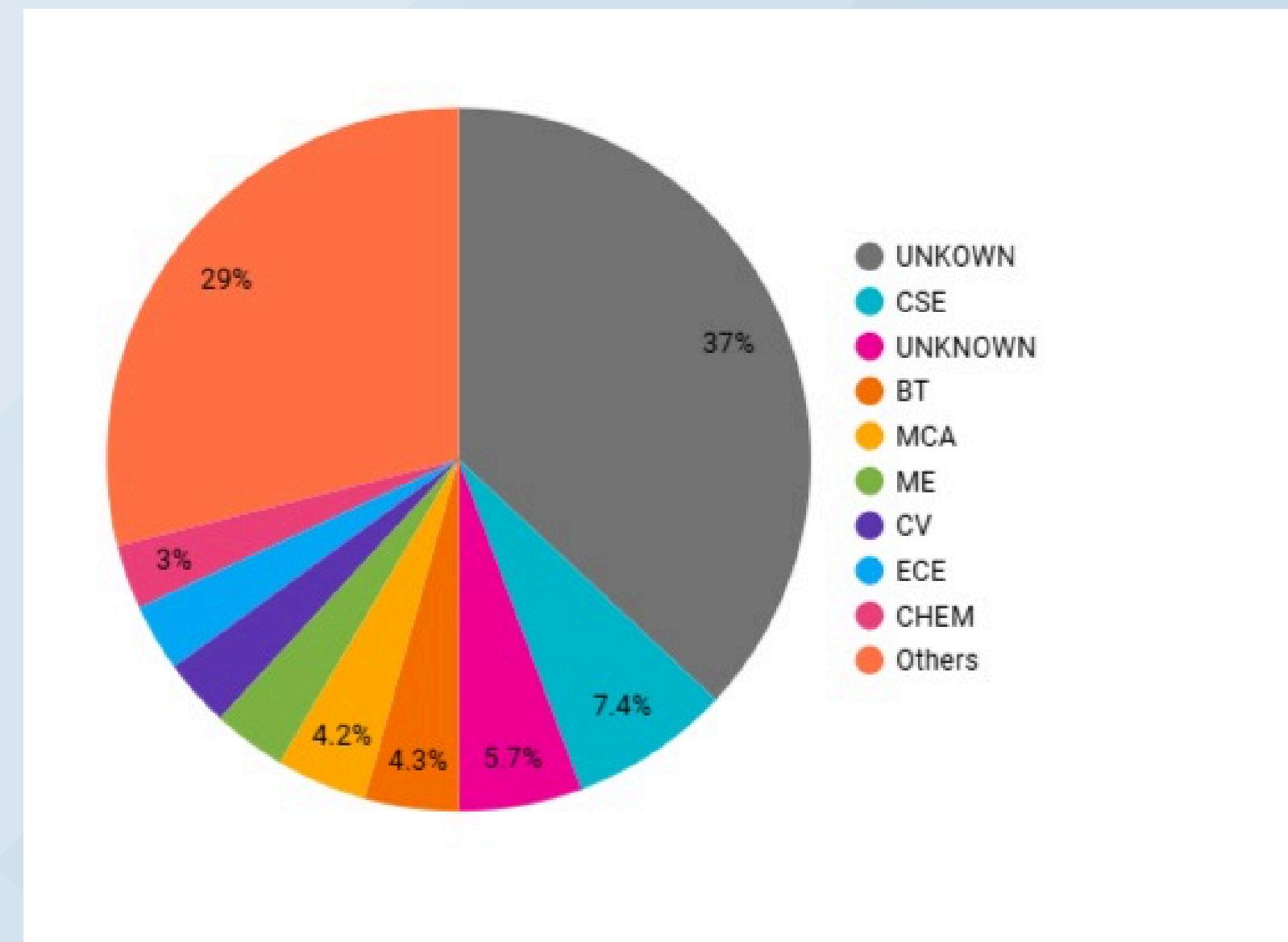




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DEPARTMENT-WISE ENGAGEMENT

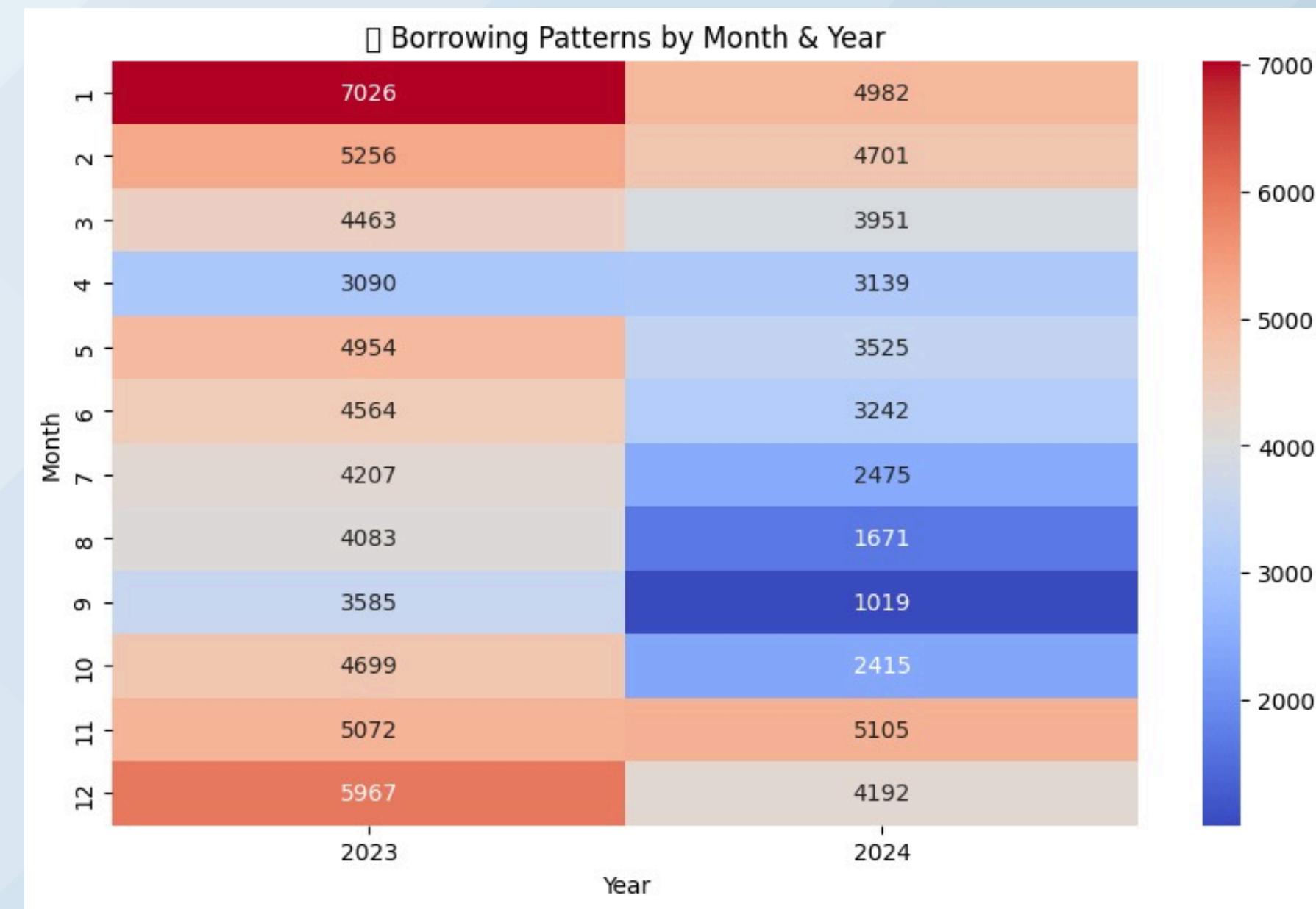




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BORROWING PATTERNS MONTH & YEAR



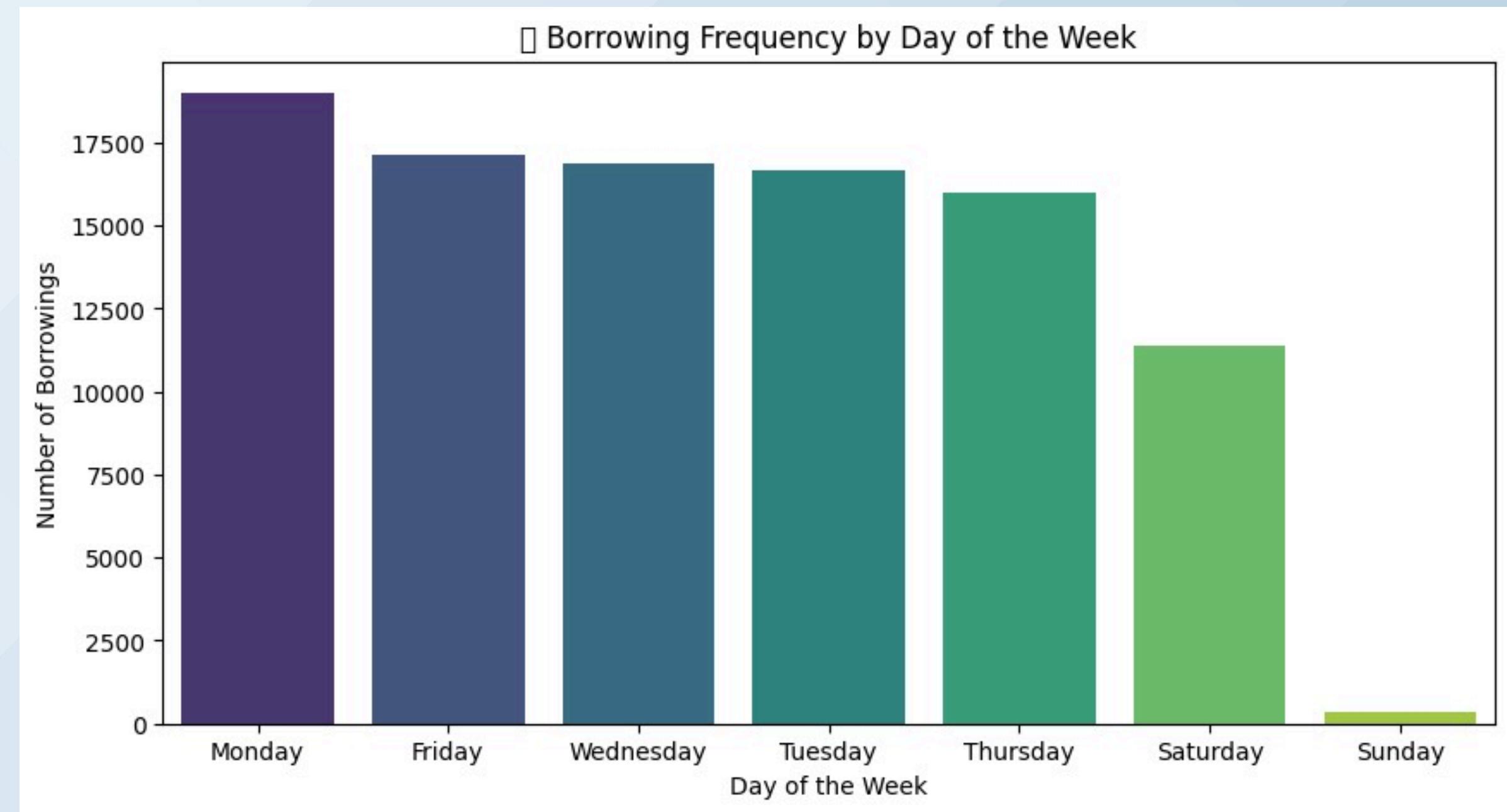


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BORROWING FREQUENCY OVER THE WEEK



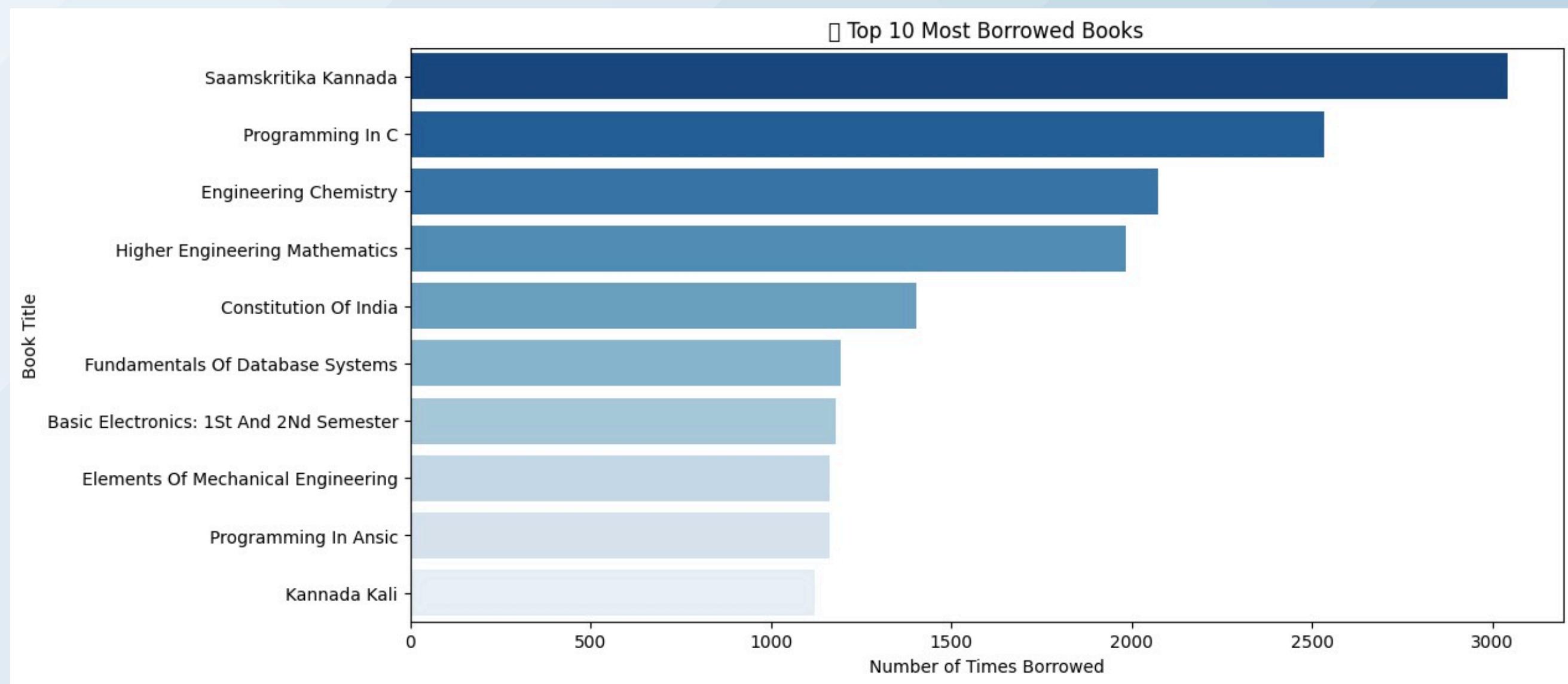
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TOP 10 BORROWED BOOKS

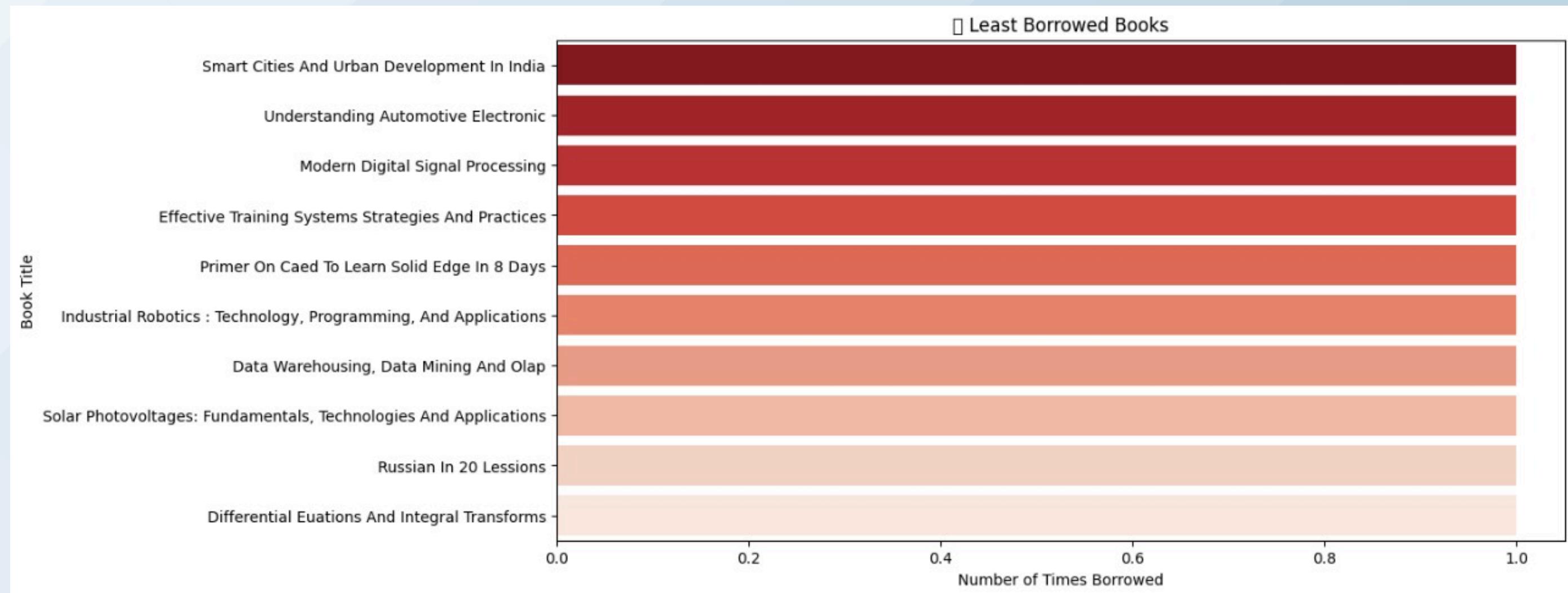




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LEAST BORROWED BOOKS





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AI TOOLS USED

1. Tableau Public - AI feature: "Explain Data" for auto-generated insights
2. Google Looker Studio - AI-powered dashboards & trend detection
3. GPT-4 & Canva - PPT & Content Generation
4. Python (Pandas, Matplotlib, Seaborn) - Automated data cleaning & visualization

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