



جامعة عفت  
EFFAT UNIVERSITY

مكتبة عفت والمتحف  
الثقافي  
EFFAT LIBRARY  
AND CULTURAL MUSEUM

# Revolutionizing Libraries:

M. Kabir Khan  
Information Literacy Librarian

Inspiring Innovation  
Fostering Collaboration  
Shaping the Future

**AMICAL 2024**

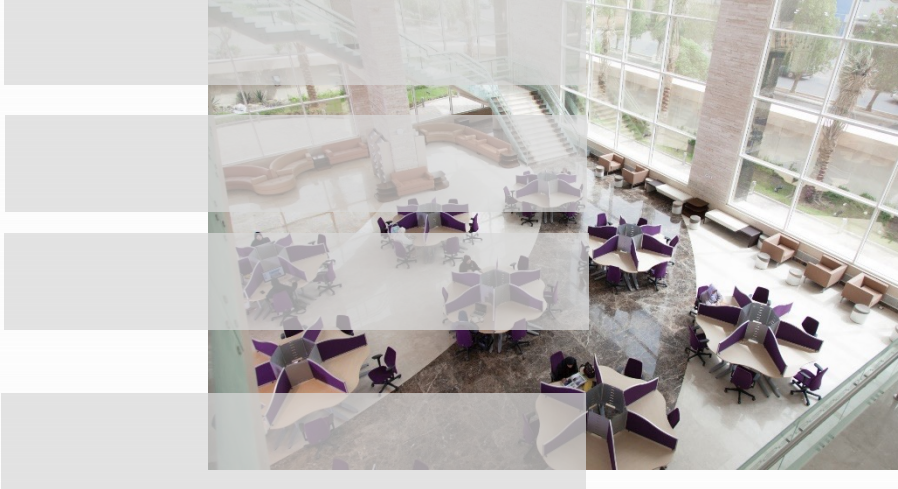
Virtual Conference  
27 May - 6 June 2024

# Effat Library and Cultural Museum

## The Impact of AI on Modern Library Services



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# Effat Library and Cultural Museum



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## Introduction



### Vision

Effat Library & Cultural Museum strives to be recognized as a dynamic and innovative center for bold academic and intellectual programs, empowering the learning community through outstanding information access and collections, innovative services and expertise, scholarly and cultural exchange.

### Background

Effat Library & Cultural Museum (EL&CM) offers a stimulating physical environment, cutting-edge technologies, and proactive services to Effat students, faculty, staff and external community. EL&CM has over 30,000 volumes in English, Arabic and other languages. The collection also includes rare volumes from the original Dar Al Hanan Library, established by Queen Effat in the 1950s.

# Traditional Library Services



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## Recap of Traditional Library Services :



Cataloging and  
organizing physical  
collections



Reference services



User assistance



Community programs  
and events

# Challenges Faced by Traditional Libraries



Limited resources  
for managing  
growing  
collections

Difficulty in  
providing  
personalized  
services to users

Time-consuming  
manual processes  
for cataloging and  
data entry

Meeting evolving  
user expectations  
for digital access  
and convenience

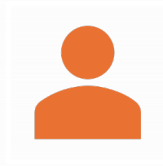
# Role of AI in Library Services



AI offer solutions to address these challenges:



Automation of repetitive tasks such as cataloging and metadata tagging



Personalized recommendations for users based on their preferences and behavior



Natural language processing for enhanced search and reference services



Data analysis for insights into user behavior and collection management

# Effat Library Technology Status



ILMS (Koha)

Research  
Repository  
(Dspace)

Discovery  
System  
(EBSCO)

RFID  
technology

Self Checkout  
Machines

# Effat Library's Strategy for Integrating AI into its Services



1

Automated cataloging systems

2

Recommendation engines for suggesting books, articles, and resources

3

Chatbots for user assistance and reference queries

4

Text mining for extracting insights from digitized collections

5

Virtual assistants for scheduling and managing library events

6

Self checkout system AI integration

7

AI integration with RFID shelf Reader

# Enhancing User Experience with AI-powered recommendations

1

## Analysis of User Behavior

AI analyzes the borrowing and browsing history of users to create tailored recommendations.

2

## Content Curation

AI automates the process of curating and suggesting relevant materials based on user preferences and past interactions.

3

## Real-Time Updates

Users receive real-time notifications and updates on new releases and relevant resources through AI-powered algorithms.

# AI-driven Automation for Library Operations



## 80%

### Process Efficiency

Automation through AI can increase process efficiency by up to 80%, allowing libraries to handle tasks more effectively.

## 90%

### Resource Utilization

AI-driven automation optimizes resource utilization, with libraries being able to allocate their resources with up to 90% accuracy.

# Ethical Considerations and Challenges in Implementing AI in Libraries



## Data Privacy

AI implementation in libraries raises concerns over data privacy and the responsible handling of user information.

## Algorithm Bias

Challenges arise from potential biases in AI algorithms, which can impact the fairness and inclusivity of library services.

## Transparency

The transparency of AI decision-making processes is critical to ensure that library users comprehend the basis of AI-generated recommendations and actions.

# Future Outlook

## The future of AI in libraries:



Continued advancements in AI technologies

Integration with emerging technologies such as augmented reality and blockchain

Collaboration and knowledge sharing among libraries and AI developers

Potential for AI to enhance accessibility and inclusion in library services

# Thank you!



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