

Artificial Intelligence

Concept & Definition

Intelligence Demonstrated by Machines



What is AI?

AI is a field of computer science that builds systems capable of performing tasks that typically need human intelligence



How It Works

Algorithms, Neural Networks, Machine Learning, Deep Learning analyze data & learn from experience



Core Capabilities

Learning, Reasoning, Problem-Solving, Perception, Language Understanding, Decision-Making



Goal of AI

Create intelligent machines that think, act, and adapt like humans to solve complex problems

**AI = Machines that Think,
Learn & Act Like Humans**

Features of Artificial Intelligence

What Makes AI Intelligent



1. Learning Ability

AI learns from data and experience, improves performance automatically without explicit programming



2. Reasoning & Problem Solving

AI analyzes data logically, solves complex problems, makes inferences like human brain



3. Perception & Pattern Recognition

AI perceives environment through sensors, recognizes patterns, images, speech, objects



4. Natural Language Processing

AI understands, interprets, generates human language — text, speech, translation, chatbots



5. Decision Making & Automation

AI takes autonomous decisions, automates tasks, predicts outcomes, acts intelligently



6. Adaptability & Self-Correction

AI adapts to new data, self-corrects errors, handles uncertainty, works continuously

**AI Features = Learn + Reason + Perceive
+ Understand + Decide + Adapt**

Benefits of
Artificial
Intelligence

Benefits of Artificial Intelligence

Why AI is Transforming the World



1. Increased Efficiency & Automation

AI automates repetitive tasks 24x7, saves time, reduces human workload, speeds up processes



2. High Accuracy & Precision

AI minimizes human errors, delivers precise results, consistent quality in data analysis



3. Smart Decision Making

AI analyzes huge data quickly, predicts trends, provides data-driven insights for better decisions



4. 24/7 Availability

AI systems work continuously without fatigue, provide round-the-clock service and support



5. Innovation & New Possibilities

AI enables new applications — ChatGPT, self-driving cars, medical diagnosis, personalized learning



6. Cost-Effective & Scalable

AI reduces long-term costs, handles large workloads, scales easily, improves ROI for organizations

**Benefits = Efficiency + Accuracy +
Smart Decisions + 24/7 + Innovation + Cost-Effective**

Applications of Artificial Intelligence in Libraries

Applications of Artificial Intelligence in Libraries

1. Acquisition and Collection Development (Part 1)

AI-Powered Smart Acquisition — Demand & Selection



Demand Prediction

Analyses circulation, reservation and search data to identify subjects likely to be in demand



Title Selection Support

Suggests books, journals and databases relevant to the institution's teaching and research programmes



Duplicate Detection

Identifies duplicate titles, editions or subscriptions before purchase

Part 1 = Predict Demand + Smart Selection + Avoid Duplicates

1. Acquisition and Collection Development (Part 2)

AI-Powered Optimization & Budget



Usage-Based Subscription Review

Detects underused and heavily used electronic resources



Collection Gap Analysis

Identifies subjects, languages or formats that are insufficiently represented



Budget Allocation Support

Helps distribute the acquisition budget according to demand, usage and institutional priorities

Part 2 = Review Usage + Identify Gaps + Optimize Budget

Key Takeaway: Clear Use

Acquisition and Collection Development



Clear Use: AI supports evidence-based selection and helps the library spend its acquisition budget more effectively.

**Evidence-Based Selection =
Effective Budget Spending**

2. Cataloguing and Metadata Creation

AI-Powered Smart Cataloguing



Automatic Metadata Extraction

Extracts title, author, publisher, date, ISBN and other details from documents



Record Generation

Produces a preliminary bibliographic record for review by a cataloguer



Subject Suggestion

Recommends subject terms after analysing resource's title, abstract or full text

**Cataloguing = Extract Metadata
+ Generate Record + Suggest Subjects**

2. Cataloguing and Metadata Creation

Classification, Keywords & Quality Control

(Part 2)



Classification Assistance

Suggests possible classification numbers based on subject content



Keyword Generation

Creates relevant keywords for digital resources



Name and Title Matching

Identifies possible duplicate or variant forms of names and titles



Metadata Quality Checking

Flags missing fields, inconsistent entries and probable errors

**Cataloguing Part 2 = Classify +
Keywords + Matching + Quality Check**

Key Takeaway: Clear Use

Cataloguing and Metadata Creation



Clear Use: AI accelerates routine metadata work, while the librarian verifies the accuracy and conformity of the final record.

Automated cataloguing and metadata enhancement are among the principal applications of AI in modern libraries.

**AI Accelerates + Librarian Verifies
= Principal AI Application**

3. Classification and Knowledge Organisation (Part 1)

AI-Powered Subject & Classification



Automatic Subject Categorisation

Places digital resources into broad or specialised subject categories



Classification-Number Recommendation

Suggests possible class numbers from recognised classification schemes



Entity Identification

Detects persons, organisations, places, events and subjects in documents

Part 1 = Categorise + Recommend
Class Numbers + Identify Entities

3. Classification and Knowledge Organisation (Part 2)

Semantic Relationships & Taxonomy



Semantic Relationship Discovery

Identifies relationships among concepts, subjects and resources



Taxonomy Development

Assists in creating and updating controlled vocabularies



Topic Clustering

Groups documents dealing with similar subjects

Part 2 = Discover Relationships + Develop Taxonomy + Cluster Topics

Key Takeaway: Clear Use

Classification and Knowledge Organisation



Clear use: AI helps organise large and rapidly growing collections, especially digital collections that cannot be processed efficiently through manual subject analysis alone.

**AI Organises Large Digital Collections
Beyond Manual Capacity**

4. Authority Control (Part 1)

Name Variants & Disambiguation



Variant-Name Identification

Detects different forms of a personal, corporate or geographic name



Entity Disambiguation

Helps distinguish between different persons who share the same or similar names



Preferred-Name Recommendation

Suggests the authorised or preferred form of an entry

Part 1 = Identify Variants
+ Disambiguate Entities
+ Recommend Preferred

4. Authority Control (Part 2)

Record Linking & Maintenance + Clear Use



Record Linking

Connects variant names, pseudonyms, transliterated forms and original-script forms



Authority-File Maintenance

Identifies inconsistent or outdated headings



Clear use: AI improves consistency by helping libraries connect different forms of the same name or entity.

**AI Connects Different Forms of Same Name
= Improved Consistency**

5. Information Retrieval and Discovery (Part 1)

Natural & Semantic Searching



Natural-Language Searching

Allows users to search through questions rather than exact keywords



Semantic Searching

Retrieves conceptually relevant resources even when the search terms differ from the words used in the documents

Part 1 = Natural Language + Semantic Relevance

5. Information Retrieval and Discovery (Part 2)

Query Enhancement & Ranking



Query Expansion

Adds synonyms, related terms and alternative spellings to improve retrieval



Relevance Ranking

Places the most likely useful results near the top



Search Suggestions

Recommends terms while the user is typing

Part 2 = Expand Queries + Rank Relevance + Suggest Terms

5. Information Retrieval and Discovery (Part 3)

Advanced & Multimodal Discovery



Multilingual Searching

Supports searching across languages and scripts



Visual and Voice Search

Allows searching through images or spoken queries where supported



Related-Resource Discovery

Suggests resources connected with the user's topic

Part 3 = Multilingual + Visual Voice + Related Discovery

Key Takeaway: Clear Use

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Information Retrieval and Discovery



Clear use: AI helps users discover relevant information even when users do not know the exact title, subject heading or technical terminology.

Natural-language processing and machine learning can improve contextual search and relevance ranking in library discovery systems.

AI = Discover Without Exact Terms
+ Improve Context & Ranking

6. Reference and Information Services (Part 1)

AI-Powered Chatbot & Virtual Reference



Library Chatbot

Answers routine questions at any time



Virtual Reference Assistant

Guides users to catalogues, databases, repositories and library services

Part 1 = Chatbot 24/7 + Virtual Reference Guide

6. Reference and Information Services (Part 2)

FAQ & Research Support



Frequently Asked Question Handling

Responds to questions concerning opening hours, membership, borrowing and renewals



Research-Query Clarification

Helps users convert broad topics into focused search questions

Part 2 = FAQ Handling + Research Clarification

6. Reference and Information Services (Part 3)

Database & Search Strategy Assistance



Database Selection Assistance

Suggests databases appropriate to a research subject



Search-Strategy Generation

Recommends keywords, synonyms and Boolean combinations

Part 3 = Database Selection + Search Strategy

6. Reference and Information Services (Part 4)

Referral Support



Referral Support

Directs complex questions to the appropriate librarian or subject specialist

Part 4 = Referral to Librarian Specialist

Key Takeaway: Clear Use

Reference and Information Services



Clear use: AI provides immediate first-level assistance, while complex, evaluative or sensitive enquiries remain with professional library staff.

AI-enabled virtual reference and chatbot services can improve response speed, but implementation must preserve accuracy, privacy and human oversight.

AI = First-Level Assistance + Librarian =
Complex & Sensitive Enquiries

7. Personalised Library Services (Part 3)

Interface & Learning Resources



Interface Personalisation

Adapts the discovery interface according to user needs



Learning-Resource Recommendation

Suggests resources appropriate to a course, level or research area

Part 3 = Interface Personalisation + Learning Resources

7. Personalised Library Services (Part 2)

Alerts & Current-Awareness



Personalised Alerts

**Sends notifications
about new resources in
selected subject areas**



Current-Awareness Services

**Delivers customised
updates based on a
user's academic or
research profile**

Part 2 = Alerts + Current-Awareness

Key Takeaway: Clear Use

Personalised Library Services



Clear use: AI helps provide relevant resources to individual users without requiring users to search the entire collection repeatedly.

Such personalisation should be transparent, optional and based on minimal use of personal data.

Personalisation = Relevant Resources + Transparent & Optional + Minimal Data

7. Personalised Library Services (Part 1)

Reading & Research Recommendations



Reading Recommendations

Suggests books based on interests and previous selections



Research Recommendations

Recommends articles, databases, authors or journals related to a user's topic

Part 1 = Reading + Research Recommendations

8. Circulation and User Services (Part 1)

Demand Forecasting & Management



Loan-Demand Forecasting

Predicts materials likely to experience high demand



Reservation Management

Helps prioritise and manage waiting lists



Return Prediction

Estimates when high-demand items may become available

Part 1 = Forecast Demand + Manage Reservations + Predict Returns

8. Circulation and User Services (Part 2)

Reminders, Patterns & Anomaly



Automated Reminders

Generates notices concerning due dates, reservations and overdue items



Service-Pattern Analysis

Identifies peak service periods and frequently requested materials



Anomaly Detection

Flags unusual circulation activity for staff review

Part 2 = Automated Reminders + Pattern Analysis + Anomaly Detection

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Key Takeaway: Clear Use

Circulation and User Services



Clear use: AI supports faster circulation services and helps libraries anticipate user demand.

**AI = Faster Circulation
+ Anticipate User Demand**

10. Digitisation and Optical Character Recognition (Part 1)

Core Recognition & Analysis



Optical Character Recognition

Converts scanned pages into machine-readable text.



Handwritten Text Recognition

Transcribes handwritten documents where handwriting quality permits.



Document-Layout Analysis

Distinguishes headings, columns, tables, illustrations and footnotes.

Part 1 = OCR + Handwriting Recognition
+ Layout Analysis

10. Digitisation and Optical Character Recognition (Part 2)

Enhancement & Extraction



Image Enhancement

Improves the readability of faded or damaged scanned pages.



Automatic Segmentation

Separates pages, articles, chapters or document components.



Metadata Extraction from Scans

Identifies names, dates, places and titles in digitised documents.

Part 2 = Enhancement + Segmentation
+ Metadata Extraction

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Key Takeaway: Clear Use

Digitisation and Optical Character Recognition



Clear use: AI transforms scanned images into searchable, editable and accessible digital text.

Unlocking content from paper to process — at speed, at scale, with accuracy.

**AI = Searchable + Editable + Accessible
Digital Text**

11. Digital Libraries and Institutional Repositories (Part 1)

Ingestion, Tagging & Indexing



Automatic Document

**Extracts metadata
when a document
is deposited**



Subject Tagging

**Assigns provisional
subjects and keywords**



Full-Text Indexing

**Makes the contents of
deposited documents
searchable**

**Part 1 = Auto Ingestion + Subject Tagging
+ Full-Text Indexing**

11. Digital Libraries and Institutional Repositories (Part 2)

Quality Control & Preservation



Duplicate-Submission Checking

Identifies possible duplicate deposits



Format Identification

Determines the file format and possible preservation needs



Content Summarisation

Produces preliminary summaries for staff or author review

Part 2 = Duplicate Check + Format ID + Summarisation

11. Digital Libraries and Institutional Repositories (Part 3)

Entity & Citation Extraction



Entity and Citation Extraction
**Identifies authors, organisations,
references and research entities**

Part 3 = Entity & Citation Extraction

Key Takeaway: Clear Use

Digital Libraries and Institutional Repositories



Clear use: AI reduces processing time and improves the discoverability of theses, articles, reports, manuscripts and other digital resources.

AI = Faster Processing
+ Improved Discoverability
of Digital Resources

12. Digital Preservation (Part 1)

Format Risk, Migration & Integrity



File-Format Risk Detection

Identifies obsolete, uncommon or potentially vulnerable formats



Migration Assistance

Recommends conversion to preservation-friendly formats



Integrity Monitoring

Detects unexpected changes or possible corruption in digital files

Part 1 = Risk Detection + Migration + Integrity Monitoring

12. Digital Preservation (Part 2)

Duplicates, Prioritisation & Description



Duplicate-file identification

Locates redundant files across digital collections.



Preservation prioritisation

Identifies materials requiring urgent attention.



Automatic content description

Generates basic descriptions where metadata is missing.

Part 2 = Duplicates + Prioritisation + Auto Description

12. Digital Preservation (Part 2)

Redundancy, Prioritisation & Description



Duplicate-File Identification

Locates redundant files across digital collections



Preservation Prioritisation

Identifies materials requiring urgent attention



Automatic Content Description

Generates basic descriptions where metadata is missing

Part 2 = Duplicate ID + Prioritisation + Auto Description

Key Takeaway: Clear Use

12. Digital Preservation



Clear use: AI assists libraries in identifying digital preservation risks and prioritising preservation work.

Empowering libraries to safeguard digital heritage with intelligent automation

**AI = Identify Preservation Risks
+ Prioritise Preservation Work**

Key Takeaway: Clear Use

Digital Preservation



Clear use: AI assists libraries in identifying digital preservation risks and prioritising preservation work.

**AI = Identify Preservation Risks
+ Prioritise Preservation Work**

13. Preservation of Physical Collections (Part 1)

Damage Detection & Conservation Planning



Damage Detection

Uses image analysis to identify stains, tears, fading or deterioration.



Environmental-Risk Prediction

Analyses temperature and humidity data to identify harmful patterns.



Conservation Prioritisation

Helps select fragile or valuable materials requiring early intervention.

Part 1 = Damage Detection + Environmental Risk
+ Conservation Priority

13. Preservation of Physical Collections (Part 1)

Damage, Risk & Conservation Priority



Damage Detection

Uses image analysis to identify stains, tears, fading or deterioration



Environmental-Risk Prediction

Analyses temperature and humidity data to identify harmful patterns



Conservation Prioritisation

Helps select fragile or valuable materials requiring early intervention

Part 1 = Damage Detection + Risk Prediction
+ Conservation Priority

13. Preservation of Physical Collections (Part 2)

Condition & Pest Monitoring



**Binding and Page-Condition
Assessment**

**Supports preliminary
physical-condition
surveys**



Pest-Monitoring Analysis

**Detects unusual
environmental or
monitoring patterns**

**Part 2 = Condition Assessment
+ Pest Monitoring**

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Key Takeaway: Clear Use

Preservation of Physical Collections



Clear use: AI provides early warnings, while final conservation decisions remain with qualified professionals.

AI supports prevention, but human expertise ensures ethical and accurate preservation.

**AI = Early Warnings +
Professionals Decide
Final Conservation**

Key Takeaway: Clear Use

Preservation of Physical Collections



**Clear use: AI provides early warnings,
while final conservation decisions remain
with qualified professionals.**

**AI = Early Warnings + Professionals
= Final Conservation Decisions**

14. Research Support Services (Part 1)

Literature Discovery & Analysis



Literature discovery

Identifies potentially relevant publications across large result sets.



Research-trend analysis

Detects emerging topics and changing areas of scholarly activity.



Citation-network analysis

Maps relationships among publications, authors and research areas.

Part 1 = Literature Discovery
+ Trend Analysis + Citation Networks

14. Research Support Services (Part 1)

Discovery & Trend Analysis



Literature Discovery

Identifies potentially relevant publications across large result sets



Research-Trend Analysis

Detects emerging topics and changing areas of scholarly activity



Citation-Network Analysis

Maps relationships among publications, authors and research areas

Part 1 = Literature Discovery + Trend Analysis + Citation Mapping

14. Research Support Services (Part 2)

Summarisation & Review Support



Research Summarisation

Produces preliminary summaries of articles for verification



Systematic-Review Assistance

Supports deduplication, screening and study organisation



Journal-Discovery Support

Identifies potentially relevant journals using subject and scope information

Part 2 = Summarisation + Systematic Review
+ Journal Discovery

Key Takeaway: Clear Use

14. Research Support Services



Clear use: AI assists researchers in navigating large quantities of literature, but researchers must verify sources, interpretations and generated summaries.

AI navigates scale, researchers ensure accuracy and trust.

**AI = Navigates Large Literature +
Researcher Verifies Sources & Summaries**

Key Takeaway: Clear Use

Research Support Services



Clear use: AI assists researchers in navigating large quantities of literature, but researchers must verify sources, interpretations and generated summaries.

**AI = Navigate Large Literature + Researchers
Verify Sources & Summaries**

15. Academic Integrity and Scholarly Communication (Part 1)

Similarity, Citation & Reference



Similarity Checking

Identifies textual overlap requiring examination



Citation Checking

Detects incomplete, malformed or inconsistent references



Reference Extraction

Converts bibliographies into structured citation data

Part 1 = Similarity + Citation Checking + Reference Extraction

15. Academic Integrity and Scholarly Communication (Part 2)

Image, Data & Communication



Image-Duplication Detection

Flags potentially reused or manipulated research images



Research-Data Documentation

Assists in preparing data descriptions and metadata



Plain-Language Summarisation

Helps communicate research findings to non-specialist audiences

Part 2 = Image Dup Detection + Data Documentation
+ Plain Summarisation

Key Takeaway: Clear Use

Academic Integrity and Scholarly Communication



Clear use: AI supports preliminary screening and publishing workflows, but AI output alone should not be treated as conclusive evidence of misconduct.

AI = Preliminary Screening + Not Conclusive Evidence of Misconduct

16. Accessibility and Inclusive Services (Part 1)

Speech & Captioning



Text-to-Speech
Reads digital
text aloud



Speech-to-Text
Converts spoken
language into
searchable written text



Automatic Captioning
Produces captions
for audio and video
resources

**Part 1 = Text-to-Speech +
Speech-to-Text + Captioning**

16. Accessibility and Inclusive Services (Part 2)

Description, Translation & Simplification



Image Description

Generates preliminary descriptions of visual resources



Language Translation

Provides initial translations of interfaces or informational content



Text Simplification

Rewrites complex information into more accessible language

Part 2 = Image Description + Translation + Simplification

16. Accessibility and Inclusive Services (Part 3)

Adaptive Interfaces



Adaptive Interfaces

**Adjusts presentation according to
accessibility requirements**

Part 3 = Adaptive Interfaces

Key Takeaway: Clear Use

Accessibility and Inclusive Services



Clear use: AI helps make library resources usable by people with varied linguistic, sensory and learning needs.

Machine-readable text and accessible design remain essential, and important content should undergo human review.

**AI = Usable for All Needs
+ Human Review Essential**

17. User Education and Information Literacy (Part 1)

Tutorials, Search Strategy & Citation



Interactive Tutorials

Provides guided instruction
on catalogue and
database searching



Search-Strategy Feedback

Reviews a user's query
and suggests
improvements



Citation Guidance

Explains referencing
styles and common
citation errors

**Part 1 = Tutorials + Search Feedback
+ Citation Guidance**

17. User Education and Information Literacy (Part 2)

Evaluation, AI-Literacy & Personalised Support



Source-Evaluation Exercises

Creates examples for identifying reliable and unreliable information



AI-Literacy Instruction

Demonstrates the limitations, biases and verification needs of AI systems



Personalised Learning Support

Adjusts explanations according to the learner's level

Part 2 = Evaluation + AI-Literacy + Personalised Support

Key Takeaway: Clear Use

User Education and Information Literacy



Clear use: AI can provide practice and immediate feedback, while librarians teach critical evaluation and responsible information use.

AI = Practice + Immediate Feedback | Librarians = Critical Evaluation

18. Library Administration and Decision Support (Part 1)

Analytics & Resource Use



Usage Analytics

Identifies patterns in circulation, visits, database use and service demand



Staff Scheduling

Helps estimate staffing requirements for different periods



Space-Use Analysis

Examines the use of reading rooms, service points and study areas

Part 1 = Usage Analytics + Staff Scheduling + Space-Use Analysis

18. Library Administration and Decision Support (Part 2)

Reports, Performance & Allocation



Report Generation

Produces draft statistical and administrative reports



Performance Monitoring

Tracks service indicators and operational trends



Resource Allocation

Supports decisions concerning budgets, staff and facilities

**Part 2 = Report Generation +
Performance Monitoring +
Resource Allocation**

18. Library Administration and Decision Support (Part 3)

Risk Forecasting



Risk Forecasting

**Identifies possible service bottlenecks
or declining resource use**

Part 3 = Risk Forecasting

Key Takeaway: Clear Use

Library Administration and Decision Support



Clear use: AI converts operational data into evidence that can support managerial planning, while the final decisions remain with library authorities.

**AI = Operational Data to Evidence +
Library Authorities = Final Decisions**

19. Communication and Outreach (Part 1)

Drafting, Promotion & Audience



Content Drafting

Prepares initial drafts of notices, newsletters and social media messages



Event Promotion

Creates targeted publicity for exhibitions, workshops and new services



Audience Analysis

Identifies subjects and programmes attracting engagement

Part 1 = Content Drafting + Event Promotion + Audience Analysis

19. Communication and Outreach (Part 2)

Multilingual, Feedback & Monitoring



Multilingual Communication

Produces preliminary translations of announcements



Feedback Analysis

Groups user comments into themes and identifies recurring concerns



Question Monitoring

Detects common user enquiries that require clearer communication

Part 2 = Multilingual + Feedback Analysis + Question Monitoring

Key Takeaway: Clear Use

Communication and Outreach



Clear use: AI helps libraries communicate more regularly and tailor outreach to different user groups.

**AI = Regular Communication +
Tailored Outreach to User Groups**

20. Security and Facility Management (Part 1)

Surveillance, Anomaly & Access



Video-Surveillance Assistance

Helps monitor camera feeds and detect notable changes



Anomaly Detection

Identifies unusual patterns in entry, exit or movement data



Access Management

Supports monitoring of secure areas and access logs

Part 1 = Surveillance + Anomaly Detection + Access Management

20. Security and Facility Management (Part 2)

Environment, Safety & Crowd



Environmental Monitoring

Analyses sensor data
for temperature, humidity
and air quality



Safety-Incident Analysis

Helps review incident
reports and identify
preventative measures



Crowd-Management Support

Estimates occupancy
and identifies congestion
in reading areas

Part 2 = Environmental Monitoring +
Safety Analysis + Crowd Management

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Key Takeaway: Clear Use

Security and Facility Management



Clear use: AI supports safety monitoring and facility optimisation, while critical security and safety decisions remain with staff.

AI = Safety Monitoring + Facility Optimisation | Staff = Critical Decisions

Applications of AI in Libraries

Part 1 of 2 | Acquisition to Inventory



1 Acquisition

Demand prediction and title-selection support



2 Cataloguing

Metadata extraction and preliminary record creation



3 Classification

Subject analysis and class-number suggestion



4 Authority Control

Name matching and variant-form identification



5 Discovery

Natural-language and semantic searching



6 Reference Service

Chatbots and virtual assistance



7 Personalisation

Reading and research recommendations



8 Circulation

Demand forecasting and automated reminders



9 Inventory

Misplaced-book and missing-item detection

Applications of AI in Libraries

Part 2 of 2 | Digitisation to Security

10

Digitisation

OCR and handwritten-text recognition

11

Digital Libraries

Automatic tagging and full-text indexing

12

Preservation

Format-risk and deterioration detection

13

Research Support

Literature discovery and trend analysis

14

Accessibility

Text-to-speech, captions and translation

15

User Education

Interactive information-literacy assistance

16

Administration

Analytics, reporting and resource planning

17

Outreach

Content preparation and feedback analysis

18

Security

Anomaly detection and system monitoring

Applications of AI in Libraries

Part 1 of 2 | Acquisition to Inventory



1 Acquisition:
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5 Discovery:
natural-language and
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6 Reference Service:
chatbots and
virtual assistance



7 Personalisation:
reading and research
recommendations



8 Circulation:
demand forecasting and
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9 Inventory:
misplaced-book and
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Applications of AI in Libraries

Part 2 of 2 | Digitisation to Security



10 Digitisation:

OCR and handrodtten-text recognition



11 Digital Libraries:

automatic tagging and full-text indexing



12 Preservation:

format-risk and deterioration detection



13 Research Support:

literature discovery and trend analysis



14 Accessibility:

text-to-speech, captions and translation



15 User Education:

interactive information-literacy assistance



16 Administration:

analytics, reporting and resource planning



17 Outreach:

content preparation and feedback analysis



18 Security:

anomaly detection and system monitoring

Part 2 = 10-18 | Total 18 Categories | GLOSS SHINE PREMIUM