

The Emerging Role of AI in Empowering Languages and Libraries for User Communities

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C-DAC



Flavors of AI

Rule based
AI

Machine
Learning

Artificial
Intelligence

Deep
Learning

Natural
Language
Processing

Genetic AI

Agentic AI

Applications of AI

Translation

Text to
Speech
Conversion

Better
Search

Creating
Brief

Language
Learning

Recommender
System

Chatbot

Use-case scenarios

- In unknown territory having different script understanding the signboards, locations etc.
- Names on buses for locations.
- Reading the descriptions written in another language.
- Movie subtitles or audio

LANGUAGE NO BAR – NOT TO LIMIT THE KNOWLEDGE TO LANGUAGE

Solutions of C-DAC

 Transliteration - Translate names and addresses in 26 languages

 Text-to-Speech converter

 सहायक writer

 Namespace - Compares names in any language to determine if the two entities are same

 Samvad - Identify the suitable schemes

 Name Search - Cross Lingual Name Search

 Shrutlekhan - Speech recognition software

 Speech Analysis Suite

 Chitrankan - Optical Character Recognition

Library Applications

- Book classification based on its content
- Book readers
- Getting Book reviews and hence recommendations for the read.
- Easy personalization for recommendations.
- Chatbot for correct articulation of requirements.
- Automated writing evaluators. E.g. Grammarly

THANK YOU