Llama3 AI Hackathon

Team Araycci

RESEARCH

made simple with

The Research Paper AI Assistant



Ārāycci- Meet The Team

Ananth

Team Lead, LLM Architect

Rohith

RAG Architect

Aditya

TTS Engineer



Samyuktha

Project Ideation
Specialist

Avinash

Translation Expert

Arush

UI Designer

Ārāycci- Problem Statement

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Researchers face challenges with managing the vast number of research papers. Each research paper in itself is large, and going through multiple papers in-depth is time-consuming.

Different research papers may not be available in the language of our choice, diminishing potential sources of information.

Ārāycci- Solution



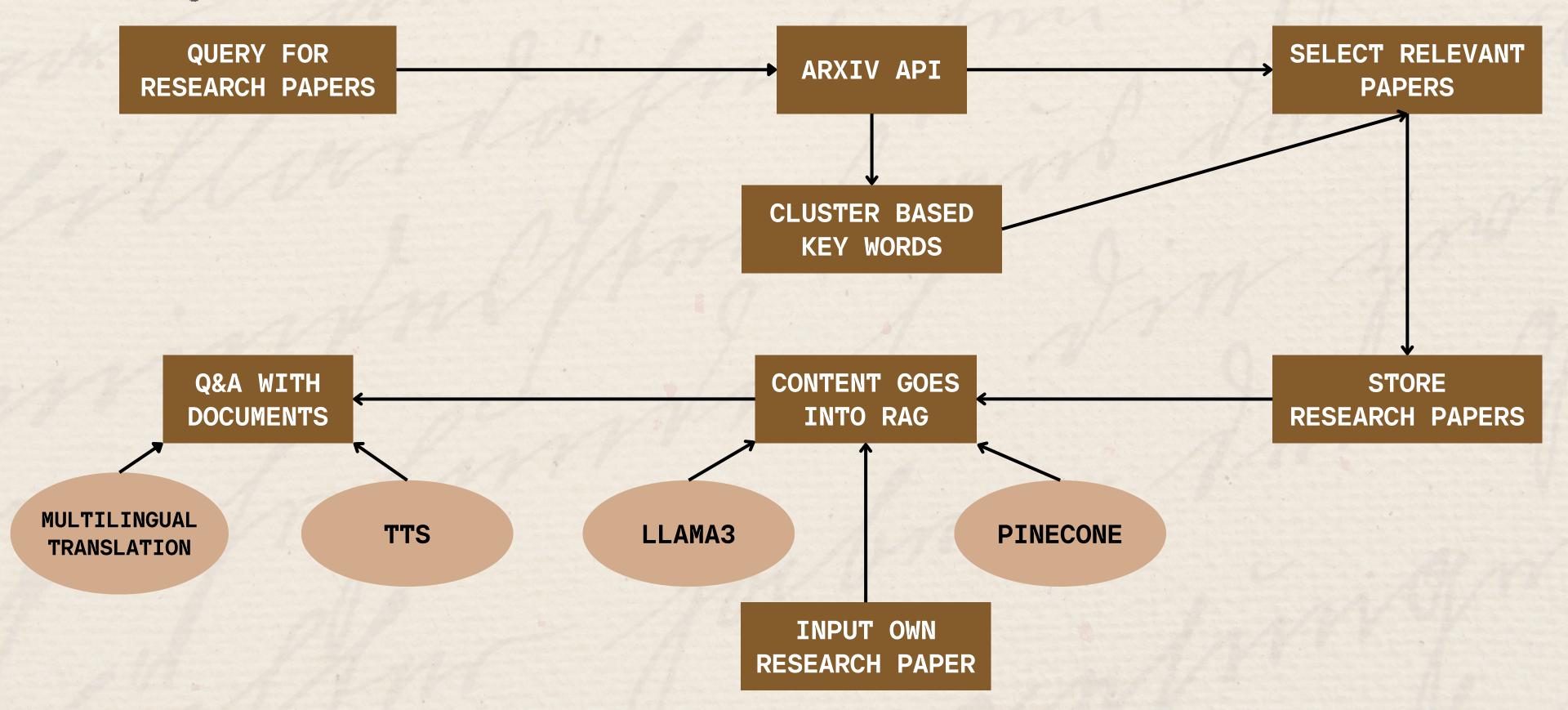
Our multilingual AI-powered Research Assistant offers clustering, summarization, and interactive Q&A with millions of documents from ArXiv, enhancing accessibility and efficiency for finding suitable papers and understanding them.

Supported by a RAG framework built on Llama 3 LLM, it also allows user-uploaded documents with text/audio input and output for in-depth Q&A.

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Ārāycci- Workflow



Ārāycci- Tech Stack

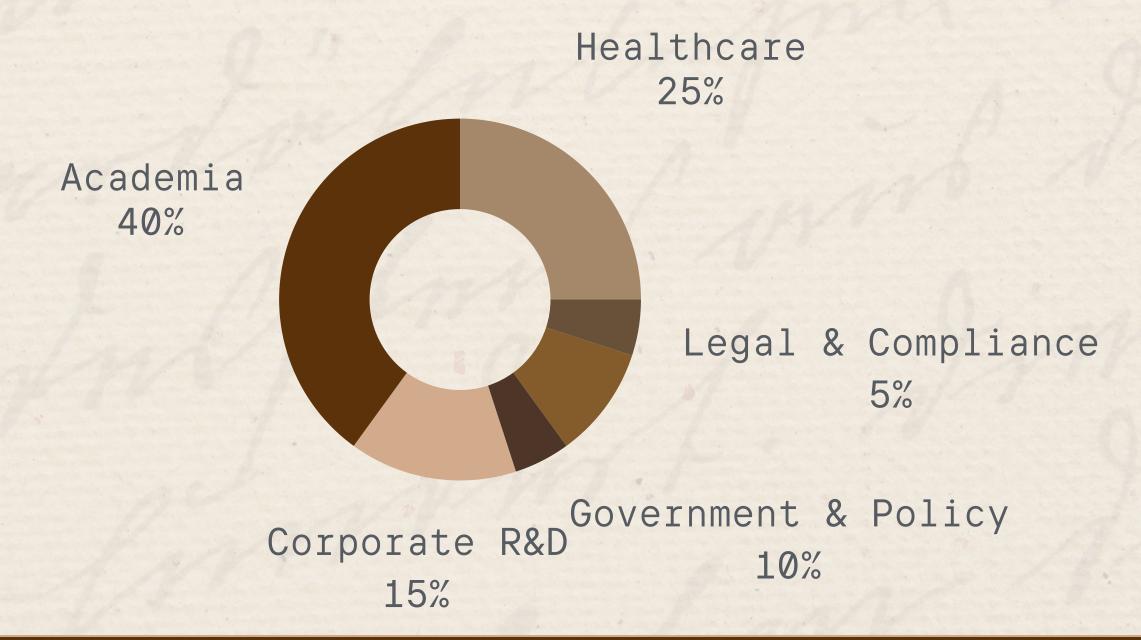
- Llama 3
- Python and its libraries
- ArXiv
- gTTS
- Together AI
- Pinecone
- Huggingface
- Streamlit
- SentenceTransformer



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Ārāycci- Market Opportunity



Our Unique Selling Proposition (USP) is the combination of multilingual text and audio support, and interactive Q&A capabilities with research documents, allowing users to engage with research content in multiple languages and directly interact with documents through advanced AI-driven features.

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Ārāycci- Competitive Analysis

Weaknesses Company Strengths • Limited Advanced AI Features • Strong Community Support like Summarisation, Clustering Zotero • Integration with Word Processors • Limited Multilingual Abilities • Wide Adoption in Academia • Privacy Concerns Mendeley • Limited AI Capabilities • Team Collaboration • Integration with Online Databases • Learning Curve for New Users **EndNote** High Cost due to Complexity • Reference Management • Subscription based with Increased Cost ReadCube Papers • Seamless Cloud Sync Across Devices • Limited Lingual Support

Ārāycci- Possible Revenue Models

Token Based Revenue Systems:

<u>Different requirements of tokens for different tasks and volume</u>

Subscription

Monthly or Yearly plans for Individuals, Corporates and Institutions based on requirements
Also offer customised solutions for organisations

Freemium

Free Basic Tier with limited tokens and payments to unlock additional features, ad-free

Pay-Per-Use

Pay for required features
based on usage like
document summarizaton,
translation and
transcription, search and
clustering algorithms

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Ārāycci- Future Prospects

Cloud Infrastructure

Seamlessly integrating our model across devices via cloud, so users can continue where they left off from any device

Expanding our Data Sources

Due to time constrants, our model only uses ArXiv for data collection and paper retrieval, and haven't included other digital libraries and repositories

Enhancing Multilingual Capabilities

Including more languages to increase regional demographics, and finetuning results to give more accurate responses

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Thank You!

Try out Ārāycci at https://araycci.streamlit.app