Llama3 AI Hackathon

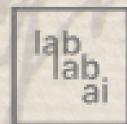
Team Araycci

RESEARCH

made simple with

ATANCCI

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

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.

in, dernit fin ifra fifere

Ārāycci- Solution



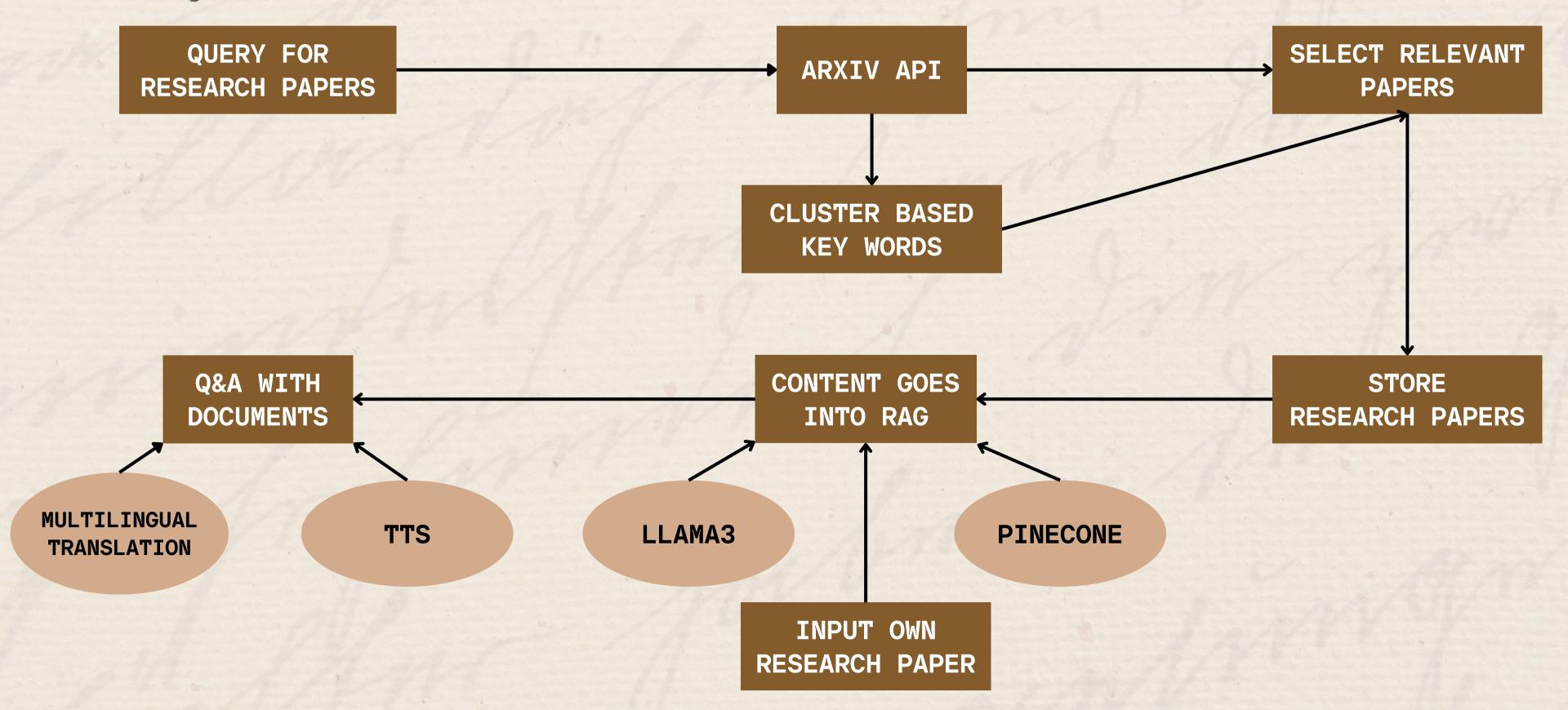
Our multilingual AI-powered Research Assistant offers clustering, summarization, and interactive Q&A with millions of documents from ArXiv, enhancing accessibility and efficiency for finding suitable papers and understanding them.

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.

in, værnit fin ifra fefere

Jan Karnit fin for fefor

Ārāycci- Workflow



Ārāycci- Tech Stack

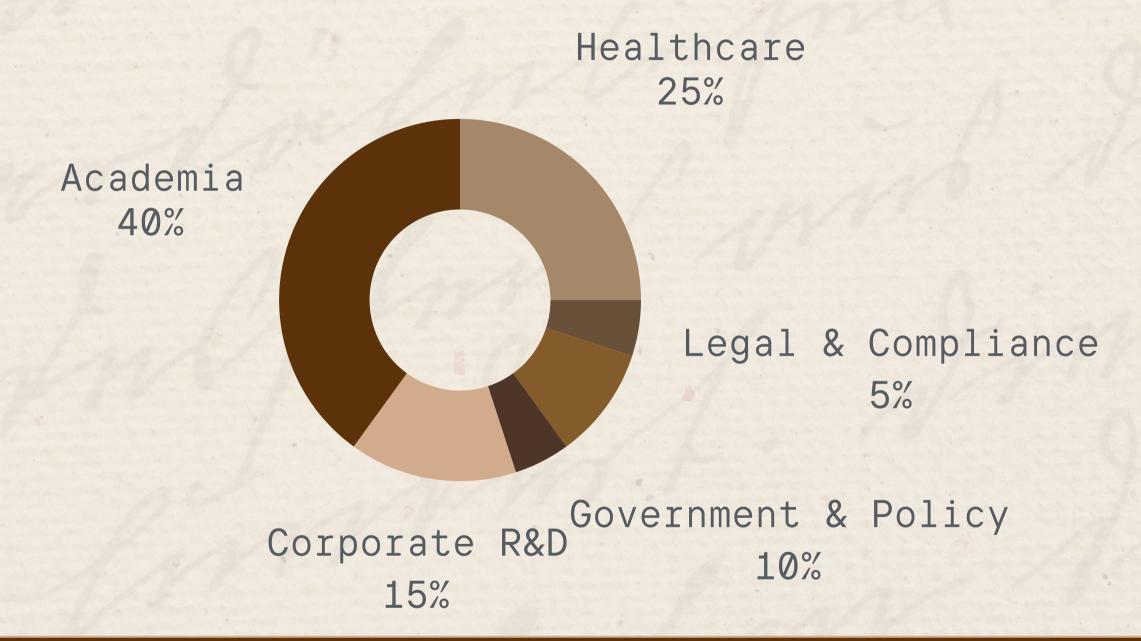
- Llama 3
- Python and its libraries
- · ArXiv
- gTTS
- Together AI
- Pinecone
- Huggingface
- Streamlit
- SentenceTransformer



in, dersait fin ifon fefores

The descrit fin ifon fifer

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.

lan, vers

fin fra fy

Ārāycci- Competitive Analysis

Company Strengths Weaknesses • 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 • Seamless Cloud Sync Across Devices Increased Cost ReadCube Papers • Limited Lingual Support

Ārāycci- Possible Revenue Models

Token Based Revenue Systems:
Different requirements of tokens for different tasks and volume

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

in, dernit fin ifon fifon

fan starnit fin ifen fefor

Emme millan fin life

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

in, varnit fin ifon fefores

Jan vanistan fin for fife

Thank You!

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