



**RV
UNIVERSITY**

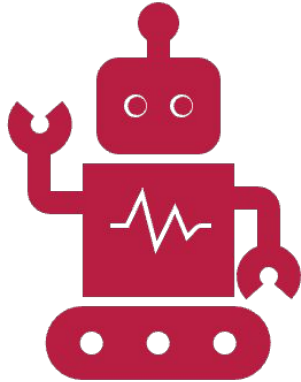
Go, change the world

an initiative of RV EDUCATIONAL INSTITUTIONS

BROADRANGE AI <> RVU

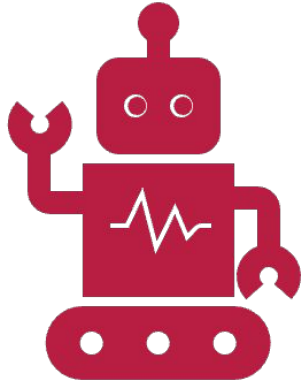
RVU PROJECTS

MENTORS : RAMARAO KADIYALA & PROF. CVSN
REDDY



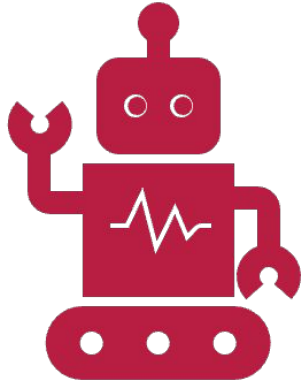
STRENGTHENING COLLABORATION BETWEEN BROADRANGE AI & RVU

- **STUDENT ENGAGEMENT:** THE EDUCATIONAL INITIATIVES HAVE SEEN 40 STUDENTS COMPLETE TRAINING ON GENERATIVE AI PROJECTS, PAVING THE WAY FOR FUTURE INNOVATORS.
- **ACTIVE LEARNING ENVIRONMENT:** CURRENTLY, 30 STUDENTS ARE IMMERSSED IN TRAINING, CONTRIBUTING TO 8 DIFFERENT PROJECTS, INDICATING A VIBRANT AND ACTIVE LEARNING CULTURE.
- **SUSTAINED GROWTH:** THESE EFFORTS HIGHLIGHT THE SUSTAINED GROWTH AND DEEPEDED EXPERTISE AMONG TEAMS, REINFORCING THE SHARED MISSION OF ADVANCING GENERATIVE AI



STRENGTHENING COLLABORATION BETWEEN BROADRANGE AI & RVU

- **A COMMITMENT TO EXCELLENCE:** THE COLLABORATION BETWEEN BROADRANGE AI AND RVU HAS FLOURISHED, MARKING A SIGNIFICANT MILESTONE OF 6 MONTHS .
- **FOCUS ON GENERATIVE AI:** WITH A STRATEGIC FOCUS ON THE RAPIDLY EVOLVING DOMAIN OF GENERATIVE AI, BROADRANGE AI HAS BECOME A PIVOTAL EDUCATIONAL FORCE.
- **DEDICATED TRAINING PROGRAMS:** THE PARTNERSHIP HAS SUCCESSFULLY IMPLEMENTED SPECIALIZED TRAINING PROGRAMS AIMED AT BUILDING A ROBUST KNOWLEDGE BASE IN AI TECHNOLOGIES



SPECIALIZED AREAS OF FOCUS

- **IMAGE PROCESSING JOURNEY:** A DEEP DIVE INTO THE COMPLEXITIES OF COMPUTER VISION AND IMAGE ANALYSIS.
- **QUANTUM COMPUTING:** EXPLORING THE FRONTIER OF COMPUTING, DELVING INTO QUANTUM ALGORITHMS AND THEIR APPLICATIONS.
- **BROADRANGE LABS AT RV UNIVERSITY:** A DEDICATED SPACE FOR INNOVATION AND RESEARCH, FOSTERING A HANDS-ON LEARNING ENVIRONMENT WITHIN RV UNIVERSITY

Multi-Language e URL

**Paste, Play, Discover :: Your Multilingual
Video Adventure!**



Paste, Play, Discover :: Your Multilingual Video Adventure!

Seamlessly explore YouTube videos with our platform. From translating content to accessing detailed transcripts, asking questions, and even breaking language barriers, we've got it all. Simply paste your YouTube URL and open the door to a world of multilingual possibilities

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**PROJECT
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INTRODUCTION

Have Youtube videos ever been long, cumbersome and difficult to understand ?

Students at RV University collaborated with BroadRangeAI under the mentorship and guidance Mr. Ramarao Kadiyala



CREATE MULTILINGUAL PLATFORM



Overcome language barriers
Enhance understanding YouTube videos



Seamless communication across languages
Wider accessible information exchange

The platform serves as a 4-in-1 solution.

Special Regards to Prof. Sanjay Sir and Prof. CVSN Sir for giving the internship opportunity

MULTILANGUAGE URL

GET AI-GENERATED ANSWERS FROM YOUTUBE TRANSCRIPTS!

ENTER YOUTUBE URL:

e.g., https://www.youtube.com/watch?v=your_video_id

PROCESS TRANSCRIPT

PRINT TRANSCRIPT

ASK A QUESTION:

Your question here

TARGET LANGUAGE:

Select Target Language

ASK QUESTION

DETAILED TRANSCRIPTS

To understand a particular moment taking place in a video with a *time stamp* without watching it !!!



ASK ANYTHING

To know the content better in favorable languages ask any question related to the video



PROJECT REQUIREMENTS

TRANSLATE AWAY

Get the answers to your questions in your preferred language



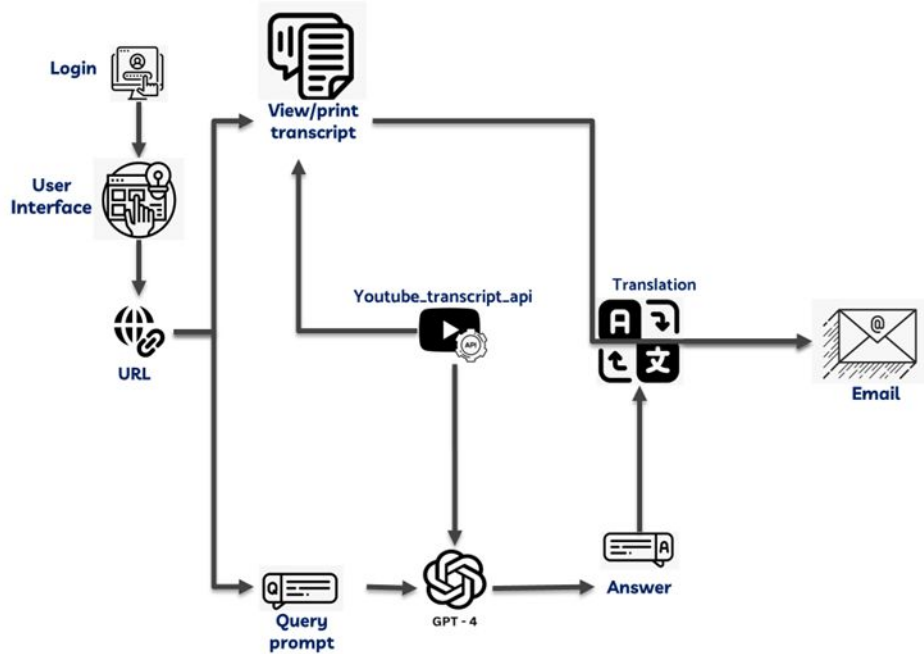
ONE TAP MAIL



Just enter desired email id and tap on the send button
It not only send transcripts but also answers question asked
with in-built subject creator system in mail



Platform's Architecture



TOOLS USED

- FLASK: Flask-based web application with routes for user interaction.
- PYTHON
- OPENAI

Libraries & Packages

URLs

1. urllib.pars

- Provides functions for parsing URLs
- Breaking down URLs into components like scheme, netloc, path, etc

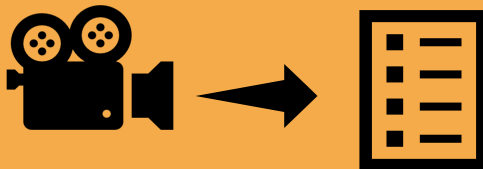
2. parse_qs

- Parses query strings from URLs into a dictionary of parameters and values

Transcripts

1. YouTube_transcript_api:

- Allows fetching and working with YouTube video transcripts programmatically



Prompting

1. Openai

- The latest GPT-4 model with the 'openai.ChatCompletion.create' method is used to generate the answers.

Libraries & Packages

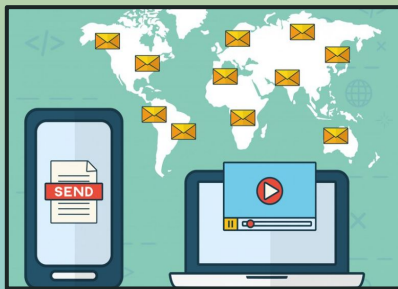
Translation

1. Langdetect

- Language detection library that can identify the language of a given text

2. googletrans.Translator

- A wrapper for Google Translate API, allowing language translation using Google's translation service



Emailing

1. smtplib

- A library for sending emails using the Simple Mail Transfer Protocol (SMTP)

2. email.mime.text.MIMEText

- Part of the Python standard library for creating MIME (Multipurpose Internet Mail Extensions) text objects for emails

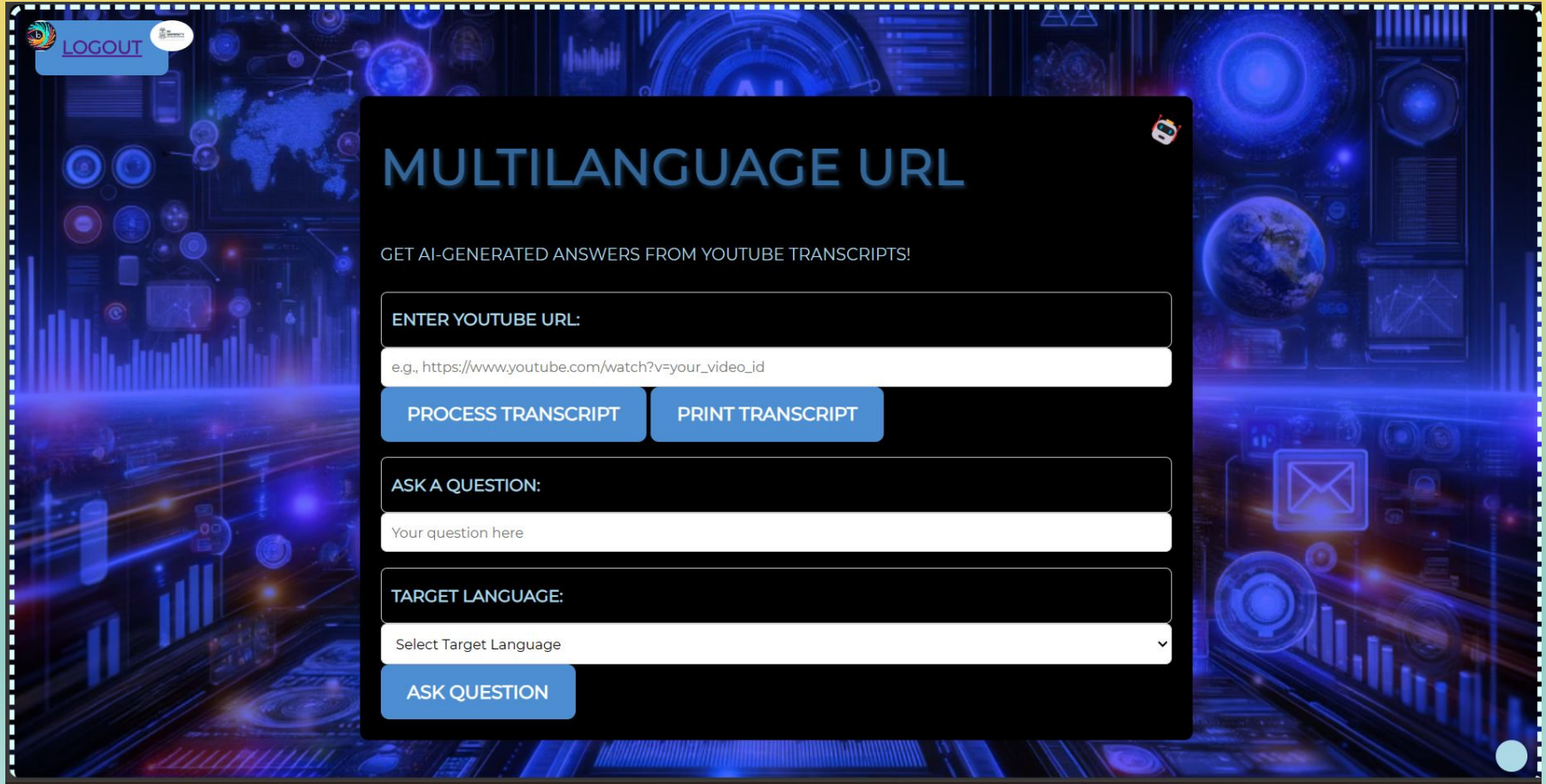
3. email.mime.multipart.MIMEMultipart

- Part of the Python standard library for creating MIME multipart objects for emails

Webpage Aesthetics & Appearance



Platform Aesthetics & Appearance



LOGOUT

MULTILANGUAGE URL

GET AI-GENERATED ANSWERS FROM YOUTUBE TRANSCRIPTS!

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PROCESS TRANSCRIPT PRINT TRANSCRIPT

ASK A QUESTION:

Your question here

TARGET LANGUAGE:

Select Target Language

ASK QUESTION

Conclusion

What is achieved and the future scope

Platform Achievements

- On YouTube URLs inputs, receive accurate transcripts with timestamps
- Platform's multilingual question-answering feature
 - Breaks down language barriers
 - Enables to seek information or clarification in their preferred language
- Convenience of
 - sharing the transcripts
 - Q&A results via email enhances the platform's versatility



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Future Scope

- The non-transcript videos approached by voice translation
- Exclusive feature of a user history



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