(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/06/2025
(21) Application No.202511061512 A
(43) Publication Date : 25/07/2025

(54) Title of the invention : A CLIPCHATTER: AI-POWERED YOUTUBE VIDEO SUMMARIZATION AND INTERACTIVE CHATBOT SYSTEM

(51) International classification :G06F40/30, H04L51/02, G06F16/3329, G06F40/56
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Disclosed herein is a clipchatter: AI-powered youtube video summarization and interactive chatbot system (100) comprises a video ingestion module (102), configured to retrieve and process video content from at least one video hosting platform. The system also includes a text segmentation engine (104), configured to divide the transcribed text into discrete chunks using a recursive character text splitting algorithm to optimize coherence and contextual integrity for downstream processing. The system also includes an embedding generation module (106), configured to transform said text chunks into high-dimensional semantic vectors using OpenAI Embeddings or equivalent transformer-based embedding models. The system also includes a semantic vector storage component (108), configured to store and index said embeddings in association with their corresponding text chunks for efficient similarity-based retrieval. The system also includes a dynamic retrieval and question-answering module (110), configured to receive user queries through a user interface.

No. of Pages : 30 No. of Claims : 10