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(51) International classification	:G06F 16/907, G06F 16/38, G06F 16/58, G06F 16/68, G06F 16/78	(71) <b>Name of Applicant :</b> <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India (72) <b>Name of Inventor :</b> <b>1)AMITA SHUKLA</b> <b>2)RIFA NIZAM KHAN</b>
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(57) Abstract :

The present invention discloses an AI-powered system (100) for automated video content indexing. The system comprises a video input module (110), preprocessing unit (120), feature extraction unit (130), semantic indexing engine (140), metadata storage (150), and retrieval interface (160). The invention integrates computer vision, speech recognition, and natural language processing to generate semantic-rich metadata for video data. It supports real-time and archived video analysis, enabling efficient, accurate, and scalable retrieval across domains including education, entertainment, surveillance, and digital archiving.

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