Home (http://ipindia.nic.in/index.htm)   About Us (http://ipindia.nic.in/about-us.htm)   Who's Who (http://ipindia.nic.in/whos-who-page.htm)
Policy & Programs (http://ipindia.nic.in/policy-pages.htm)   Achievements (http://ipindia.nic.in/achievements-page.htm)
RTI (http://ipindia.nic.in/right-to-information.htm)   Feedback (https://ipindiaonline.gov.in/feedback)   Sitemap (shttp://ipindia.nic.in/itemap.htm)
Contact Us (http://ipindia.nic.in/contact-us.htm)   Help Line (http://ipindia.nic.in/helpline-page.htm)

Skip to Main Content

inPASS
Indian Patent Advanced Search System

(http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

(http://ipindia.nic.

Patent Search

Invention Title	SPEECH RECOGNITION SERVICES USING ARTIFICIAL INTELLIGENCE SYSTEM AND METHOD THEREOF
Publication Number	21/2023
Publication Date	26/05/2023
Publication Type	INA
Application Number	202341027808
Application Filing Date	16/04/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G06N 050400, G06N 200000, G10L 151600, G10L 151800, G10L 152200

Inventor

Name	Address	Country
Dr.Valli Madhavi Koti	Principal, Department of Computer Science, GIET Degree College, Rajahmundry, East Godavari, Andhra Pradesh, India. Pin Code: 533296	India
Dr.Nafees Akhter Farooqui	Assistant Professor, School of Computer Applications, BBD University, Lucknow, Uttar Pradesh, India. Pin Code:226028	India
Dr.Arul Leena Rose P J	Professor, Department of Computer Science, College of Science and Humanities, SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu, India. Pin Code: 603203	India
Mr.G.Kiran Kumar	Assistant Professor, Department of Electronics and Communication Engineering, Institute of Aeronautical Engineering, Hyderabad, Telangana, India. Pin Code:500043	India
Dr.Mohammad Islam	Assistant Professor, Computer Science, Era University, Lucknow, Uttar Pradesh, India. Pin Code:226003	India
Dr.A.Kishore Reddy	Principal, Department of ECE, Andhra Engineering College, Nellore, Andhra Pradesh, India. Pin Code:524322	India
Dr.Santhosh Boddupalli	Assistant Professor, Department of CSE-Honors, K L Deemed to be University, Green Fields, Vaddeswaram, Guntur District, Andhra Pradesh, India. Pin Code:522302	India
Dr.K.G.S.Venkatesan	Professor, Department of CSE, MEGHA Institute of Engineering & Technology for Women, Edulabad, Hyderabad, Telangana, India. Pin Code:501301	India
Mrs.P.Neela Sundari	Assistant Professor, Department of CSE, KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Vatticherukuru Mandal, Guntur, Andhra Pradesh, India. Pin Code:522017	India
Dr.Farhad Mehta	Assistant Professor C, School of Pharmaceutical Sciences, U.T.D, RGPV University, Bhopal, Madhya Pradesh, India. Pin Code:462038	India

Applicant

Name	Address	Country
Dr.Valli Madhavi Koti	Principal, Department of Computer Science, GIET Degree College, Rajahmundry, East Godavari, Andhra Pradesh, India. Pin Code: 533296	India
Dr.Nafees Akhter Farooqui	Assistant Professor, School of Computer Applications, BBD University, Lucknow, Uttar Pradesh, India. Pin Code:226028	India
Dr.Arul Leena Rose P J	Professor, Department of Computer Science, College of Science and Humanities, SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu, India. Pin Code: 603203	India
Mr.G.Kiran Kumar	Assistant Professor, Department of Electronics and Communication Engineering, Institute of Aeronautical Engineering, Hyderabad, Telangana, India. Pin Code:500043	India
Dr.Mohammad Islam	Assistant Professor, Computer Science, Era University, Lucknow, Uttar Pradesh, India. Pin Code:226003	India
Dr.A.Kishore Reddy	Principal, Department of ECE, Andhra Engineering College, Nellore, Andhra Pradesh, India. Pin Code:524322	India
Dr.Santhosh Boddupalli	Assistant Professor, Department of CSE-Honors, K L Deemed to be University, Green Fields, Vaddeswaram, Guntur District, Andhra Pradesh, India. Pin Code:522302	India
Dr.K.G.S.Venkatesan	Professor, Department of CSE, MEGHA Institute of Engineering & Technology for Women, Edulabad, Hyderabad, Telangana, India. Pin Code:501301	India
Mrs.P.Neela Sundari	Assistant Professor, Department of CSE, KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Vatticherukuru Mandal, Guntur, Andhra Pradesh, India. Pin Code:522017	India
Dr.Farhad Mehta	Assistant Professor C, School of Pharmaceutical Sciences, U.T.D, RGPV University, Bhopal, Madhya Pradesh, India. Pin Code:462038	India

Abstract:

[047] The proposed invention is a speech recognition system that utilizes artificial intelligence and machine learning techniques to accurately transcribe spoken langu[...] time. The system consists of a neural network engine trained on a dataset of spoken language, a training module, a natural language processing module, and a user i[...] system's adaptability to a wide range of accents and speech patterns, real-time transcription capabilities, and potential applications in a variety of industries make it a[...] tool for businesses, individuals, and society as a whole. By reducing the cost and time associated with transcription services and improving accessibility for individuals[...] hearing impairments or speech impediments, the proposed system represents a significant advancement in the field of speech recognition. Accompanied Drawing [F[...]

Complete Specification

Description:[001] The present invention relates to the field of speech recognition using artificial intelligence. Specifically, it pertains to the development of a system [...] method that utilizes AI technology to accurately recognize and transcribe spoken language, making it a valuable tool for a wide range of applications, including lang[...] translation, virtual assistants, transcription services, and more.

BACKGROUND OF THE INVENTION

[002] The following description provides the information that may be useful in understanding the present invention. It is not an admission that any of the informati[...] provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[003] Further, the approaches described in this section are approaches that could be pursued, but not necessarily approaches that have been previously conceived [...] pursued. Therefore, unless otherwise indicated, it should not be assumed that any of the approaches described in this section qualify as prior art merely by virtue o[...] inclusion in this section.

[004] Speech recognition has been a subject of research and development for several decades. It involves the use of technology to recognize and transcribe spoken [...] language into text. This technology has the potential to revolutionize a variety of industries by making it possible to interact with machines and devices through voi[...] commands, as well as to create accurate transcriptions of spoken language for a variety of purposes. However, despite advances in speech recognition technology, [...] accuracy of such systems remains a challenge.

[005] Traditional speech recognition systems use a set of acoustic models and language models to recognize and transcribe speech. These models are trained using [...] datasets of spoken language, which allows the system to learn the patterns and nuances of speech. However, these systems are limited by their reliance on pre-def[...]

View Application Status