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Patent Search

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Inventor

Name	Address	Country	Nat
Mr. K. Sridhar	Assistant Professor, Department of ECE, Marri Laxman Reddy Institute of Technology and Management, Hyderabad, Telangana, India, Pincode: 500043	India	Indi
Dr.Kanaparthi Harsha Vardhana Reddy	Associate Professor, Department of ECE, Sree Rama Engineering College, Tirupati, Andhra Pradesh, India, Pincode: 517507	India	Indi
Dr.Nellore Manoj Kumar	Independent Researcher, Founder & CEO, Infinite-Research Organization, B.O,15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India	Indi
Mr. Ramasankar Molleti	Principal, Cloud Architect, 11227 Lost Maples Trail, Frisco, Texas, USA, Pincode: 75035	U.S.A.	Indi
Mr. Sunil Kumar Suvvari	Senior Consultant, 11211 Lost Maples Trail, Frisco, Texas, USA, Pincode: 75035	U.S.A.	Indi
Mrs. P. Bhargavi	Assistant Professor, Department of CSE, Narayana Engineering College, Nellore, SPSR Nellore (Dt), Andhra Pradesh, India, Pincode: 524002	India	Indi
Dr. Radheshyam R. Sharma	Assistant Professor, Department of Mathematics & Statistics, Podar World College, Andheri West, Mumbai, Maharashatra, India, Pincode: 400049	India	Indi
Mr. Ranganath Honnalli	Software Engineer, Computer Science, BEC, Bagalkot, Karnataka, India, Pincode: 587102	India	Indi
Dr. Asadi Srinivasulu	Visiting Professor, CRCCARE, The University of Newcastle, Newcastle, NSW, Australia, Postal Code: 2308	Australia	Indi
Mr. B. Siva Sankar	Assistant Professor, Department of IT, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India	Indi
Mr. Gopal Krishna	Assistant Professor, Department of CSE, Supaul College of Engineering, Supaul, Bihar, India, Pincode: 852131	India	Indi

Applicant

Name	Address	Country	Nat
Mr. K. Sridhar	Assistant Professor, Department of ECE, Marri Laxman Reddy Institute of Technology and Management, Hyderabad, Telangana, India, Pincode: 500043	India	Indi
Dr.Kanaparthi Harsha Vardhana Reddy	Associate Professor, Department of ECE, Sree Rama Engineering College, Tirupati, Andhra Pradesh, India, Pincode: 517507	India	Indi
Dr.Nellore Manoj Kumar	Independent Researcher, Founder & CEO, Infinite-Research Organization, B.O,15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India	Indi
Mr. Ramasankar Molleti	Principal, Cloud Architect, 11227 Lost Maples Trail, Frisco, Texas, USA, Pincode: 75035	U.S.A.	Indi
Mr. Sunil Kumar Suvvari	Senior Consultant, 11211 Lost Maples Trail, Frisco, Texas, USA, Pincode: 75035	U.S.A.	Indi
Mrs. P. Bhargavi	Assistant Professor, Department of CSE, Narayana Engineering College, Nellore, SPSR Nellore (Dt), Andhra Pradesh, India, Pincode: 524002	India	Indi
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Mr. B. Siva Sankar	Assistant Professor, Department of IT, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India	Indi
Mr. Gopal Krishna	Assistant Professor, Department of CSE, Supaul College of Engineering, Supaul, Bihar, India, Pincode: 852131	India	Indi

Abstract:

The proposed invention is an AI-based virtual assistant designed to facilitate seamless and natural human-computer interactions. Utilizing advanced machine learning algo and natural language processing models, the assistant understands and responds to user inputs conversationally. It features continuous learning to improve over time, vo recognition and synthesis for voice-based interactions, and compatibility across various devices, including smartphones and smart home systems. The assistant personaliz responses based on user preferences, integrates with third-party services, and ensures robust security measures to protect user data. Additionally, it supports multiple lar making it accessible to a wide range of users, thereby setting a new standard in human-computer interaction.

<p style="text-align:center"><u>Complete Specification</u></p>

Description:The field of invention of the proposed system, an AI-based Virtual Assistant for Seamless and Natural Human-Computer Interactions, lies at the intersection artificial intelligence, natural language processing, and human-computer interaction. This innovation aims to enhance user experience by enabling intuitive and efficient communication between humans and digital devices. The system leverages advanced machine learning algorithms and sophisticated language models to understand an respond to user inputs in a conversational manner, mimicking human-like interactions. It is designed to function across various platforms, including mobile devices, desktops, and smart home systems, providing users with a versatile and accessible tool for managing their daily tasks. The virtual assistant can perform a wide range of functions, from setting reminders and managing schedules to controlling smart devices and providing information on demand. This invention is particularly relevant in today's technology-driven world, where the need for seamless and natural interactions with digital systems is increasingly paramount, contributing to improved producti accessibility, and user satisfaction.

Background of the proposed invention:

In the contemporary digital era, the interaction between humans and computers has witnessed a significant transformation. With the advent of advanced technologies, t demand for more intuitive, efficient, and natural modes of interaction has grown exponentially. Traditional interfaces, such as graphical user interfaces (GUIs) and command-line interfaces (CLIs), have served well in the past, but they often fall short in providing the seamless experience that modern users crave. The proposed invention, an AI-based Virtual Assistant for Seamless and Natural Human-Computer Interactions, addresses this gap by leveraging cutting-edge artificial intelligence and natural language processing (NLP) technologies to create a more fluid and human-like interaction paradigm.

The concept of virtual assistants is not new; it has evolved significantly over the years. Early iterations were rudimentary, limited in functionality, and often cumbersome

<p style="text-align:center">[View Application Status]</p>