Patent Search

Invention Title	AI-Driven Expert Matching and Consultation Management Platform
Publication Number	01/2026
Publication Date	02/01/2026
Publication Type	INA
Application Number	202541126306
Application Filing Date	13/12/2025
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q 20/40, G06N 20/00, G06N 5/04, G06Q 20/38, G06Q 30/06

Inventor

Name	Address	Country	Nat
Dr. Venkata Naga Rani Bandaru	Associate Professor, Dept. of Information Technology, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi
P. Pavan Kumar	Student, Dept. of CSBS, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi
V. Harshavardhan Rayadu	Student, Dept. of CSBS, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi
V.Praveen Yesu	Student, Dept. of CSBS, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi
P Chandu	Student, Dept. of CSBS, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi
Jithendra Venkata Sai Bonam	Student, Dept. of Computer Science and Engineering, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi

Applicant

Name	Address	Country	Nation
Vishnu Institute of Technology	Sri Vishnu Education Society, Kovvada Rd, Vishnupur, Kovvada, Andhra Pradesh 534202	India	India

Abstract:

The present invention discloses an AI-driven expert–user consultation platform that automates expert discovery, verification, scheduling, payment processing, and real-tim communication. The system comprises a user interface for requirement intake, an expert registration and verification module, and an AI recommendation engine that ana user needs, expert domains, historical performance, and contextual data to identify suitable experts. A scheduling module coordinates availability, while a secure payment processes transactions prior to consultation. An encrypted real-time communication engine enables video, audio, or chat-based sessions. A feedback and insights module updates expert credibility scores and generates personalized recommendations. A centralized server manages workflow orchestration, data integrity, and security. The inv provides a streamlined, intelligent, and scalable expert-consultation ecosystem.

Complete Specification

Description:FIELD OF THE INVENTION

[001] The present invention relates generally to the domain of intelligent computing systems and automated environmental monitoring technologies. More particularly, t invention pertains to an Internet-of-Things (IoT) based air-quality monitoring and controlling system that integrates multi-gas sensing, embedded microcontroller processing, cloud-based data communication, and automated ventilation actuation for maintaining safe indoor atmospheric conditions. The invention further concerns r time acquisition of pollutant parameters, threshold-driven decision logic, and remote notification mechanisms that collectively enable autonomous environmental management across residential, commercial, educational, and industrial infrastructures.

BACKGROUND OF THE INVENTION

[002] Indoor air pollution has emerged as a critical health and safety concern in residential, commercial, and industrial environments. Traditional pollutant detection systems in the prior art largely rely on standalone gas detectors or analog indicators that provide only local warnings without enabling real-time remote supervision or centralized environmental control. Such devices are typically limited to detecting a single pollutant—such as carbon monoxide or smoke—and therefore fail to provide a comprehensive representation of indoor atmospheric conditions. The absence of multi-parameter sensing capabilities prevents users from recognizing correlated environmental risks, such as humidity-driven particulate increase or simultaneous elevation of carbon dioxide and methane, thereby limiting the effectiveness of such systems in maintaining safe indoor environments.

View Application Status

Page last updated on: 26/06/2019