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TITLE OF INVENTION	AN ARTIFICIAL INTELLIGENCE (AI) AND INTERNET OF THINGS (IOT) BASED INTEGRATED APPROACH FOR COVID-19 PREVENTION
FIELD OF INVENTION	COMPUTER SCIENCE
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(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE (AI) AND INTERNET OF THINGS (IOT) BASED INTEGRATED APPROACH FOR COVID-19 PREVENTION (71)Name of Applicant : 1)VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY Address of Applicant : Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad- 500090, Telangana State, India ------Name of Applicant : NA :G06K000900000, H04L0029080000, Address of Applicant : NA (51) International (72)Name of Inventor : G06F0008710000, C22C0038380000, classification G01N0027300000 1)Shiva Madhav Address of Applicant : Vallurupalli Nageswara Rao Vignana (86) International :NA Application No Jyothi Institute of Engineering and Technology :NA Filing Date (VNRVJIET), Hyderabad ------

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(57) Abstract :

A low-cost AI-based screening system that can be installed at various locations. The objective is to automate the task of face mask detection, check for social distancing and body temperature scanning. The dataset consisted of 2314 images combining those without a mask and those with an artificial mask attached to them. These functionalities are carried out by combining AI and IoT technologies. IoT devices are employed with deep learning and computer vision algorithms to achieve a real-time covid screening solution. The objective is to provide a cost-effective solution for automating face mask detection, checking social distancing and temperature sensing by leveraging IoT. Components like Raspberry Pi, IR Temperature Module, Servo Motors, Pi camera, Solenoid Lock, Motion Detector, and Relay are used to achieve the task. The system and method for identification of pople with risk / threat of Covid 19, wherein these components are easily available at a low cost.

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