

(54) Title of the invention : Facial Recognition-Based Attendance Management System with AI and IoT Integration

(51) International classification :G06V0040160000, G06F0021620000, G06Q0050200000, G06Q0010109100, G06Q0010100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Ms. T. Sujilatha
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, NBKRIST, Vidyanagar, Tirupati District, Andhra Pradesh, India, Pin code: 524413 -----
2)Mrs. B. Rajani
3)Mr. Ajai Singh
4)Dr. Panguluri Vinodh Babu
5)Dr. Nellore Manoj Kumar
6)Ms. Tejaswi Ganesh Mangave
7)Ms. Snehal Chandrakant Rathod
8)Mr. Gopal Krishna
9)Dr. Duraimurugan S
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Ms. T. Sujilatha
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, NBKRIST, Vidyanagar, Tirupati District, Andhra Pradesh, India, Pin code: 524413 -----
2)Mrs. B. Rajani
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, NBKRIST, Vidyanagar, Tirupati District, Andhra Pradesh, India, Pin code: 524413 -----
3)Mr. Ajai Singh
 Address of Applicant :Assistant Professor, Department of Management, Doon Business School, DBS Global University, Dehradun, Uttarakhand, India, Pin code: 248011 -----
4)Dr. Panguluri Vinodh Babu
 Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, Bapatla Engineering College, Bapatla, Andhra Pradesh, India, Pin code: 522101 -----
5)Dr. Nellore Manoj Kumar
 Address of Applicant :Independent Researcher, Founder & CEO, Infinite-Research Organization, B.O, 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pin code: 524132 -----
6)Ms. Tejaswi Ganesh Mangave
 Address of Applicant :Assistant Professor, Department of AI & DS, AISSMS's IOIT, Pune, Maharashtra, India, Pin code: 411001 -----
7)Ms. Snehal Chandrakant Rathod
 Address of Applicant :Assistant Professor, Department of AI & DS, AISSMS's IOIT, Pune, Maharashtra, India, Pin code: 411001 -----
8)Mr. Gopal Krishna
 Address of Applicant :Assistant Professor, Department of CSE, Supaul College of Engineering, Supaul, Bihar, India, Pin code: 852131 -----
9)Dr. Duraimurugan S
 Address of Applicant :Professor, Department of Information Technology, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India, Pin code: 600073 ---

(57) Abstract :
 The Facial Recognition-Based Attendance Management System with AI and IoT Integration is a sophisticated, automated solution designed to streamline attendance tracking for organizations, schools, and institutions. Utilizing advanced facial recognition technology and AI algorithms, the system efficiently identifies individuals in real-time, ensuring a contactless and accurate process. IoT integration synchronizes attendance data across multiple locations, with the cloud-based platform offering centralized management and real-time reporting. AI continuously refines its recognition capabilities, adapting to diverse conditions and improving accuracy over time. By analyzing attendance data, the system provides valuable insights into patterns like absenteeism and tardiness, allowing administrators to make informed decisions. Secure encryption and compliance with data privacy regulations protect biometric data, while a user-friendly interface enhances the overall experience. Scalable and easily integrated with other organizational tools, this system provides a future-proof solution to modern attendance management.

No. of Pages : 26 No. of Claims : 10