

(54) Title of the invention : A SYSTEM BASED ON CLOUD, ML & INTERNET OF THINGS FOR EARLY WARNING OF FLOODING DISASTER

<p>(51) International classification :G08B 211000, H04H 205900, H04L 671000, H04L 671200, H04W 040200</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Rinki Singh Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Satyug Darshan Institute of Engineering and Technology, Faridabad, Haryana -----</p> <p>2)Atul Pratap Singh</p> <p>3)Amit Kumar</p> <p>4)Dr. Satendra Kumar</p> <p>5)Dr Inderpreet Kaur</p> <p>6)Arti Ranjan</p> <p>7)Kamal Kant Sharma</p> <p>8)Sanjay Kumar Nayak</p> <p>9)Swati Sharma</p> <p>10)Mukul Aggarwal</p> <p>11)Neha Yadav</p> <p>12)Vijay Kumar</p> <p>13)Ms Priyanka Aggarwal</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Rinki Singh Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Satyug Darshan Institute of Engineering and Technology, Faridabad, Haryana -----</p> <p>2)Atul Pratap Singh Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh -----</p> <p>3)Amit Kumar Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, Moradabad Institute of Technology, Moradabad, Uttar Pradesh -----</p> <p>4)Dr. Satendra Kumar Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, Moradabad Institute of Technology, Moradabad, Uttar Pradesh -----</p> <p>5)Dr Inderpreet Kaur Address of Applicant :Professor, Department of Computer Science & Engineering, Galgotias College of Engineering and Technology, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh -----</p> <p>6)Arti Ranjan Address of Applicant :Assistant Professor, Department of Information Technology, Galgotias College of Engineering and Technology, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh -----</p> <p>7)Kamal Kant Sharma Address of Applicant :Assistant Professor, Department of Information Technology, KIET Group of Institutions, Delhi NCR, Ghaziabad , Uttar Pradesh -----</p> <p>8)Sanjay Kumar Nayak Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Noida Institute of Engineering and Technology, Gautam Buddha Nagar, Uttar Pradesh -----</p> <p>9)Swati Sharma Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, KIET Group of Institutions, Delhi NCR, Ghaziabad , Uttar Pradesh -----</p> <p>10)Mukul Aggarwal Address of Applicant :Assistant Professor, Department of Information Technology, KIET Group of Institutions, Delhi NCR, Ghaziabad, Uttar Pradesh -----</p> <p>11)Neha Yadav Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, KIET Group of Institutions, Delhi NCR, Ghaziabad , Uttar Pradesh -----</p> <p>12)Vijay Kumar Address of Applicant :Assistant Professor, Department of Computer science, BVCOE, Delhi, New Delhi -----</p> <p>13)Ms Priyanka Aggarwal Address of Applicant :A2Z Softech, Ghaziabad -----</p>
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(57) Abstract :
Overflowing lakes and rivers cause flooding. Dams sometimes break, releasing massive amounts of water. Water enters soil and "floods" the area. Stations involve river banks. Street infrastructure floodwater contains bacteria, sewage, and chemical spillage from waste sites, causing a variety of diseases. Real-time river stage data can help predict floods. Understanding the storm's length, intensity, and area helps determine the flood's severity. We use a raspberry pi with water and rain sensors to predict floods, alert authorities, and sound alarms in nearby villages using IOT. Water sensors measure water levels in three locations. Three different rain sensors measure rain levels in those three areas. Arduino sends IOT sensor data. The system warns villages and areas that may be affected by flooding by predicting how long it will take. The system calculates the flood's arrival time and alerts people to evacuate. This system suggests a flood-alert system. It can also aid multiple government agencies in preventing floods and other natural disasters. The model has been tested and works. It will track every flood risk. It alerts immediately if water level and speed rise. It also facilitates recovery from this disaster. It will aid the community in making quick decisions and disaster preparation.

No. of Pages : 23 No. of Claims : 6