

(54) Title of the invention : SYSTEMATIC APPROACHES TO IDENTIFY THE IMPACT OF ARTIFICIAL INTELLIGENCE (AI) IN THE GROWTH OF AGRICULTURE & FOOD SECTOR

<p>(51) International classification :G06N0003080000, G06N0020000000, G06Q0050020000, G06N0007000000, H04N0019172000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</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)M Thiyagarajan Address of Applicant :Assistant Professor Computer Science & Engineering AMET University, 135, ECR Road, Kanathur, Chennai, Tamilnadu - 603112 -----</p> <p>2)R Ponnusamy 3)Dr.D.Ruby 4)Dr Malini S 5)N.Selvam 6)Dr.S.Kannadhasan 7)Dr.J.Senthil Murugan 8)Dr. W T Chembian Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M Thiyagarajan Address of Applicant :Assistant Professor Computer Science & Engineering AMET University, 135, ECR Road, Kanathur, Chennai, Tamilnadu - 603112 -----</p> <p>2)R Ponnusamy Address of Applicant :Assistant Professor/Programmer Department of Computer and Information Science Annamalai University, Chidambaram,Cuddalore, Tamilnadu. -----</p> <p>3)Dr.D.Ruby Address of Applicant :Associate Professor Computer Science & Applications Periyar Maniammai Institute of Science & Technology, Periyar Nagar, Vallam, Thanjavur, Tamilnadu - 613 403 -----</p> <p>4)Dr Malini S Address of Applicant :MBA, Anna University Chennai, Tamilnadu -----</p> <p>5)N.Selvam Address of Applicant :Assistant Professor / Department of EEE M.Kumarasamy College of Engineering, Karur, Tamilnadu -639113. -----</p> <p>6)Dr.S.Kannadhasan Address of Applicant :Assistant Professor / ECE Study World College of Engineering Palathurai, Madukkarai, Coimbatore, Tamilnadu - 641105 -----</p> <p>7)Dr.J.Senthil Murugan Address of Applicant :Associate Professor / CSE, Vel Tech High Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai, Tamilnadu. -----</p> <p>8)Dr. W T Chembian Address of Applicant :Associate Professor, Department of Computer Science & Engineering, Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College (Autonomous), 60, Avadi – Vel Tech Road Vel Nagar Avadi, Chennai, Tamilnadu -600062 -----</p>
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(57) Abstract :

SYSTEMATIC APPROACHES TO IDENTIFY THE IMPACT OF ARTIFICIAL INTELLIGENCE (AI) IN THE GROWTH OF AGRICULTURE & FOOD SECTOR A systematic approaches to identify the impact of artificial intelligence (AI) in the growth of agriculture and food sector. The system comprises an information backbone connecting the event transactional database structure and the application programs with layered protocols and services, receive information that identifies a planting date value; identify a time frame based on the imagery data and determine that the time frame satisfies a threshold based on the planting date value, training an artificial intelligence (AI) model based on the transformed data, validating and retraining the artificial intelligence (AI) model, identify a commodity based on comparing the first size and the second size, determine an expected quantity value of the commodity based on the information identifying the quantity of seeds planted in the emergence area, ranking results based on the matching the user data with the artificial intelligence (AI) model and applying the expected weather conditions, the crop-specific information, and facility metadata representing actual and/or realized performance characteristics of a grain drying facility using at least one of fuel-based drying or forced-air mechanical drying of harvested grain.

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