

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/08/2025

(21) Application No.202531076087 A

(43) Publication Date : 22/08/2025

(54) Title of the invention : AI-DRIVEN REAL-TIME CROP PRICING AND MARKET ADVISORY SYSTEM

(51) International classification :G06Q0050020000, G06N002000000, G01W0001100000, G06Q0010063100, G01W0001000000
(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)Brainware University, Kolkata

Address of Applicant :398, Ramkrishnapur Rd, Near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Soham Bachaspatti

Address of Applicant :Assistant Professor, Department of Agriculture, Brainware University, Barasat, Kolkata, 700125 ----- -----

2)Mr. Rajdeep Mohanta

Address of Applicant :Assistant Professor, Department of Agriculture, Brainware University, Barasat, Kolkata, 700125 ----- -----

3)Mr. Soumik Dey Roy

Address of Applicant :Assistant Professor, Department of Agriculture, Brainware University, 398, Ramkrishnapur Road, Barasat, Kolkata, 700125 ----- -----

4)Mr. Sagar Banik

Address of Applicant :Assistant Professor, Department of Agriculture, Brainware University, Barasat, Kolkata, 700125 ----- -----

5)Dr. Madhusri Pramanik

Address of Applicant :Assistant Professor, Department of Agriculture, Brainware University, Barasat, Kolkata, 700125 ----- -----

6)Dr. Pabitra Kumar Ghosh

Address of Applicant :Assistant Professor, Department of Agriculture, Brainware University, Barasat, Kolkata, 700125 ----- -----

(57) Abstract :

The present invention discloses an AI-driven real-time crop pricing and market advisory system designed to empower farmers with data-driven insights for maximizing profitability. The system integrates diverse data sources—including weather forecasts, crop yield estimates, market demand, regional price trends, and logistics data—into a machine learning-based predictive engine that forecasts short- to mid-term crop prices. A user-friendly interface accessible via mobile devices, web portals, or rural kiosks delivers actionable recommendations such as optimal selling time, ideal market locations, and price trend alerts. The system aims to reduce farmer dependency on intermediaries, prevent distress selling, and improve overall market efficiency by enabling informed, timely, and location-specific decisions.

Accompanied Drawing [FIGS. 1-2]

No. of Pages : 22 No. of Claims : 10