

(54) Title of the invention : PREDICTIVE MODELLING AND ANALYSIS FOR FINANCIAL OPPORTUNITIES: A COMPREHENSIVE APPROACH USING DYNAMI

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| <p>(51) International classification :G06Q0040060000, G06Q0010060000, G06Q0040020000, G06Q0040040000, G06N0020000000</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 :</p> <p>1)Subrata Paul Address of Applicant :Brainware University, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>2)Bhaskar Maity 3)Anirban Mitra 4)Subir Gupta 5)Kamaluddin Mandal 6)Soumojit Roy 7)Abhik Choudhary 8)Joyita Ghosh 9)Abhinandan Ghosh 10)Asit Kumar Nayak 11)Dipankar Roy</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Subrata Paul Address of Applicant :Brainware University, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>2)Bhaskar Maity Address of Applicant :Brainware University, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>3)Anirban Mitra Address of Applicant :Amity School of Engineering & Technology, Kolkata.3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>4)Subir Gupta Address of Applicant :Haldia Institute of Technology, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>5)Kamaluddin Mandal Address of Applicant :Haldia Institute of Technology, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>6)Soumojit Roy Address of Applicant :Haldia Institute of Technology, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>7)Abhik Choudhary Address of Applicant :Haldia Institute of Technology, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>8)Joyita Ghosh Address of Applicant :Haldia Institute of Technology, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>9)Abhinandan Ghosh Address of Applicant :Atria Institute of Technology, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>10)Asit Kumar Nayak Address of Applicant : Haldia Institute of Technology, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> <p>11)Dipankar Roy Address of Applicant :Haldia Institute of Technology, 3, Amman Nagar, Il Main Road, Nesapakkam, Chennai — 600078, Tamilnadu. -----</p> |
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(57) Abstract :

ABSTRACT The invention described focuses on predictive modeling and analysis for financial opportunities, with a specific emphasis on leveraging dynamic social networks and cellular automata. This innovation finds direct application across various sectors within the financial industry, ranging from investment banking and asset management to risk assessment and portfolio optimization. In investment banking, where decision-making relies heavily on market trends and predictive analytics, the proposed approach can provide valuable insights into emerging opportunities, potential risks, and optimal investment strategies. By incorporating dynamic social network dynamics, the invention offers a nuanced understanding of market sentiments, investor behaviors, and interconnections between financial entities, enabling more informed investment decisions and market predictions. Asset management firms stand to benefit significantly from the invention's capabilities, as they seek to maximize returns and manage investment portfolios efficiently. By integrating predictive modeling techniques with dynamic social networks, asset managers can identify promising investment opportunities, diversify portfolios effectively, and mitigate risks associated with market fluctuations. Moreover, the invention's use of cellular automata allows for the simulation of complex market dynamics, enabling asset managers to anticipate changes in market conditions and adjust investment strategies accordingly. This proactive approach to portfolio management can enhance overall performance and yield better outcomes for investors. Risk assessment is another critical area where the invention can make a substantial impact. Financial institutions and regulatory bodies rely on accurate risk assessment models to evaluate the likelihood of potential losses and ensure compliance with regulatory standards. The proposed approach offers a sophisticated framework for analyzing financial risks by considering dynamic social network dynamics and cellular automata simulations. By incorporating insights from evolving social interactions and market dynamics, risk assessment models can become more robust and adaptive, providing stakeholders with a comprehensive understanding of potential risks and vulnerabilities in the financial system. This can lead to more effective risk management strategies and better regulatory compliance across the financial industry.

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