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	(71)**Name of Applicant :**
	  1)Dr. Jnaneshwar Pai Maroor
	   Address of Applicant :Assistant Professor, Department of Humanities, NMAM Institute of Technology, NET Campus, Nitte - 574110. Karkala Taluk Udupi Karnataka India ----------- -----------
	  2)Dr.S.Rajakumaran
	  3)Kurpatwar Balaprasad Purushottam
	  4)Mr J.Chandra Babu
	  5)D Deepa
	  6)Abdulrub Bin Mohsin
	  7)Dr.Mani Goyal
	  8)Mrs.D.Nirmala
	  9)Vishwanatha J.S
	  10)Mr B.Ramana Reddy
	Name of Applicant : NA
	Address of Applicant : NA
	(72)**Name of Inventor :**
	  1)Dr. Jnaneshwar Pai Maroor
	Address of Applicant :Assistant Professor, Department of Humanities, NMAM Institute of Technology, NET Campus, Nitte - 574110. Karkala Taluk Udupi Karnataka India ----------- -----------
	  2)Dr.S.Rajakumaran
	Address of Applicant :Assistant Professor Department of Computer Science Engineering , Annamalai university cuddalore Tamil nadu India ----------- -----------
	  3)Kurpatwar Balaprasad Purushottam
	Address of Applicant :Assistant professor, Department of Mechanical, Rajiv Gandhi College of engineering karjule Harya, SPPU pune, Ahmednagar, Maharashtra, India. ----------- -----------
	  4)Mr J.Chandra Babu
	Address of Applicant :Assistant professor Department of computer science and engineering Annamacharya Institute of Technology and sciences Tirupati Andhra Pradesh India ----------- -----------
	  5)D Deepa
	Address of Applicant :Assistant Professor, Department of ADS, St Joseph's College of Engineering OMR , Kamaraj Nagar, Semmancheri, Chennai - 119 Tamilnadu India ----------- -----------
	  6)Abdulrub Bin Mohsin
	Address of Applicant :Assistant Professor, Department of Computer Science, Maulana Azad National Urdu University, Polytechnic , Darbhanga. Bihar, India. ----------- -----------
	  7)Dr.Mani Goyal
	Address of Applicant :Assistant Professor Department of Computer science & Engg, MMEC/ Maharishi Markandeshwar Deemed to be University Ambala,Haryana India ----------- -----------
	  8)Mrs.D.Nirmala
	Address of Applicant :Assistant Professor, Department of Computer Science and Engineering SNS College of Engineering, Coimbatore Anna University , Chennai Tamil Nadu India ----------- -----------
	  9)Vishwanatha J.S
	Address of Applicant :Assistant Professor, Department of Mechanical Engineering, NITTE (Deemed to be University), NMAM Institute of Technology (NMAMIT), Nitte, Karnataka,574110, India Udupi Karnataka India ----------- -----------
	  10)Mr B.Ramana Reddy
	Address of Applicant :HOD-CSE, CIC, DS Department of computer science and engineering, Annamacharya Institute of Technology and sciences Tirupati Andhra Pradesh, India ----------- -----------

(57) Abstract :
Artificial Intelligence based Prediction system to predict stock market Index price and crypto currency closing price using Machine Learning Algorithms Abstract: Machine learning-based stock price prediction enables the identification of the future worth of business stocks and other financial assets traded on an exchange. The primary objective of predicting stock prices is to achieve substantial financial gains. Forecasting the performance of the stock market is a challenging endeavor. Additional variables contribute to the forecast, including physiological and psychological characteristics, rational and irrational conduct, and other relevant factors. The combination of these elements results in the dynamic and volatile nature of share prices. This greatly hampers the ability to accurately forecast stock values. The financial sector has exerted a significant influence on the financial welfare of consumers, merchants, and financial institutions. Artificial intelligence is revolutionizing the financial markets with advanced machine learning and deep learning algorithms. These techniques are widely employed in predicting financial instrument prices, analyzing market trends, identifying investment opportunities, optimizing portfolios, and so on. Investors and traders employ machine learning and deep learning models to predict the movements of financial instruments. Given the extensive use of AI in finance, it is crucial to provide a concise overview of the latest machine learning and deep learning models. This has encouraged us to give a complete evaluation of the practical uses of machine learning in the financial industry. This article explores many algorithms, including supervised and unsupervised machine learning algorithms, ensemble algorithms, time series analysis algorithms, and deep learning algorithms, that are used for predicting stock prices and solving categorization problems.

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