CODE	TITLE	DESCRIPTION
VTPAI01	Artificial Neural Networks and Computer Vision's-Based Phyto-indication Systems for Variable Rate Irrigation Improving.	Improving the efficiency of water use is one of the main tasks facing the heads of farms today
VTPAI02	Causal Artificial Intelligence for High-Stakes Decisions: The Design and Development of a Causal Machine Learning Model	High-stakes decision: used to describe a situation that has a lot of risk and in which someone is likely to either get or lose an advantage, a lot of money, etc
VTPAI03	Challenging Artificial Intelligence with Multi-opponent and Multi-movement Prediction for the Card Game Big2	Multi-opponent and Multimovement Prediction for the Card Game Big2 using Big2AI
VTPAI04	Impact of Artificial Intelligence in COVID-19 Pandemic	By implementing the ML algorithms, found eight antibodies can be used to prevent the COVID-19
VTPAI05	Design and Development of Conversational Chatbot for Covid-19 using NLP: an AI application	AI chatbot for the purpose of evaluation, diagnosis and recommending immediate preventive as well as safety measures for patients who have been exposed to nCOV-19
VTPAI06	Artificial Intelligence Applications in K-12 Education	K-12 Education: Intelligent Tutoring Systems
VTPAI07	A Density Peaks Clustering Algorithm with Sparse Search and K-d Tree	A Density Peaks Clustering Algorithm creation: using Sparse Search and K-d Tree used for different datasets
VTPAI08	A Method to Automatic Create Dataset for Training Object Detection Neural Networks	This method proved that a dataset can be created automatically by using the data flow from object extraction to image synthesis
VTPAI09	Data-Driven Artificial Intelligence Recommendation Mechanism in Online Learning Resources	Intelligent recommendation mechanism for online learning resources

CODE	TITLE	DESCRIPTION
VTPAI10	Divergence-Based Transferability Analysis for Self-Adaptive Smart Grid Intrusion Detection with Transfer Learning	Intrusion Detection using Neural Network techniques
VTPAI11	Waste Collection and Transportation Supervision Based on Improved YOLOv3 Model	The collection which will cause the inferior performance of waste classification into four categories: open-full, open-empty, close-full and close empty
VTPAI12	Seizure Detection Based on Improved Genetic Algorithm Optimized Multilayer Network	Seizure Detection is a sudden, uncontrolled electrical disturbance in the brain
VTPAI13	Real Time Landmark Detection for Within- and Cross Subject Tracking With Minimal Human Supervision	Allows for landmark detection based on only few examples and for definition of target landmarks after completed training without retraining
VTPAI14	Revealing Influence of Meteorological Conditions on Air Quality Prediction Using Explainable Deep Learning	Air Quality Prediction Using Explainable Deep Learning
VTPAI15	A Binary Classification Study of Alzheimer's Disease Based on a Novel Subclass Weighted Logistic Regression Method	Alzheimer's Disease detection Based on a Novel Subclass Weighted Logistic Regression Method
VTPAI16	A Robust Approach for Brain Tumor Detection in Magnetic Resonance Images Using Fine tuned EfficientNet	Brain Tumor Detection in MRI images
VTPAI17	An Exemplar Pyramid Feature Extraction Based Alzheimer Disease Classification Method	Alzheimer Disease Classification using MLP
VTPAI18	Breast Cancer Diagnosis Using Support Vector Machines Optimized by Whale Optimization and Dragonfly Algorithms	Breast Cancer Diagnosis

CODE	TITLE	DESCRIPTION	
VTPAI19	Explainable Steel Quality Prediction System Based on Gradient Boosting Decision Trees	Steel Quality Prediction	IEEE 2022 - ARTIFICIAL INTELLIGENCE
VTPAI20	Detection of Stress in IT Employees using Machine Learning Technique	IT Employees Stress Detection	
VTPAI21	Thorax Disease Classification Based on Pyramidal Convolution Shuffle Attention Neural Network	Thoracic disease detection based on conditions of the heart, lungs, mediastinum, esophagus, chest wall, diaphragm and great vessels	
VTPAI22	A General and Scalable Vision Framework for Functional Near-Infrared Spectroscopy Classification	We propose a general and scalable vision fNIRS framework that converts multi-channel fNIRS signals into multi-channel virtual images using the GADF	
VTPIP01	An Encoder-Decoder Network for Automatic Clinical Target Volume Target Segmentation of Cervical Cancer in CT Images	Segmentation of Cervical Cancer	IEEE 2022 - IMAGE PROCESSING
VTPIP02	Colon Former: An Efficient Transformer Based Method for Colon Polyp Segmentation	Colon Polyp Segmentation: Most colon polyps are harmless. But over time, some colon polyps can develop into colon cancer	
VTPIP03	Machine Learning and Image Processing Methods for Cetacean Photo Identification	Cetacea of aquatic mostly marine mammals that includes the whales, dolphins, porpoises, and related forms and that have a torpedo-shaped nearly hairless body detection	
VTPIP04	Feasibility of Bone Fracture Detection Using Microwave Imaging	Bone Fracture Detection	
VTPIP05	A Survey of Wound Image Analysis Using Deep Learning: Classification, Detection, and Segmentation	Deep learning in the field of wound image analysis, including classification, detection, and segmentation	

CODE	TITLE	DESCRIPTION	
VTPIP06	An Analysis on Ensemble Learning Optimized Medical Image Classification with Deep Convolutional Neural Networks	Medical Image Classification for colorectal cancer/ COVID-19/ Melanoma/ Diabetic retinopathy	IEEE 2022 - IMAGE PROCESSING
VTPIP07	On the Deep Learning Models for EEG-Based Brain-Computer Interface Using Motor Imagery	Brain-Computer interface (BCI) is an emerging technology which can measure brain activity and convert it into artificial outputs	
VTPIP08	Plant Disease Detection and Classification Using Machine Learning Algorithm	Plant Disease Detection and Classification	
VTPIP09	Privacy-Preserving Deep Learning with Learnable Image Encryption on Medical Images	Image Encryption on Medical Images for Brain Tumor	
VTPIP10	Unsupervised Meta Learning With Multiview Constraints for Hyperspectral Image Small Sample set Classification	A technique that analyzes a wide spectrum of light in image instead of just assigning primary colors (red, green, blue) to each pixel	
VTPNLP01	An Interval Type-2 Fuzzy Ontological Similarity Measure	Fuzzy Sentence Similarity Measures (FSSM) are algorithms that can compare two or more short texts which contain fuzzy words and return a numeric measure of similarity of meaning between them	IEEE 2022 - NATURAL LANGUAGE PROCESSING
VTPNLP02	An NLP-Inspired Data Augmentation Method for Adverse Event Prediction Using an Imbalanced Healthcare Dataset	The method generates synthetic patient records by replacing patient backgrounds with similar backgrounds	
VTPNLP03	Context-Driven Satire Detection With Deep Learning	Automatically detecting satire instances in short articles, in which vices, follies, abuses, and shortcomings are held up to ridicule, often with the intent of shaming or exposing the perceived flaws of individuals or other	
VTPNLP04	Exemplars-Guided Empathetic Response Generation Controlled by the Elements of Human Communication	Empathy: - the ability to understand Human Communication and share the RESPONSE feelings	

CODE	TITLE	DESCRIPTION	IEEE 2022 NATURAL LANGUAGE PROCESSING
VTPNLP05	Feature Selection for Location Metonymy Using Augmented Bag-of-Words	Location metonymy attempting to accurately classify whether the location is used literally or metonymically	
VTPNLP06	Measuring Social Solidarity During Crisis: The Role of Design Choices	We assess how social solidarity & anti solidarity towards migrants and refugees has changed before and after the onset of the COVID-19 pandemic	
VTPNLP07	Compilation, Analysis and Application of a Comprehensive Bangla Corpus KUMono	We have collected Bangla text from various online Bangla websites. We found the newspaper sites or any website data. To find out the data Combined Word Level Analysis and Combined Character Level Analysis	