CODE	TITLE	DESCRIPTION
VTPML01	Applying Machine Learning Algorithms for the Classification of Sleep Disorders	This project focuses on developing and evaluating machine learning models to accurately classify different sleep disorders based on patient data
VTPML02	Machine Learning-Based Cardiovascular Disease Detection Using Optimal Feature Selection	This project aims to develop a robust machine learning model for detecting cardiovascular diseases by selecting the most relevant features from patient data to improve prediction accuracy.
VTPML03	A Novel Web Framework for Cervical Cancer Detection System	This project involves creating a web-based platform that utilizes machine learning algorithms to assist in the early detection of cervical cancer, potentially improving patient outcomes.
VTPML04	Enhancing Medicare Fraud Detection Through Machine Learning: Addressing Class Imbalance With SMOTE-ENN	This project explores the use of machine learning techniques, specifically addressing class imbalance issues, to improve the detection of fraud within the Medicare system
VTPML05	Hybrid Machine Learning Model for Efficient Botnet Attack Detection in IoT Environment	This project develops a hybrid machine learning model to effectively detect and mitigate Botnet attacks within the Internet of Things (IoT) environment.
VTPML06	An Improved Concatenation of AI Models for Predicting and Interpreting Ischemic Stroke	This project investigates the use of an improved AI model concatenation approach for accurate prediction and interpretation of ischemic stroke occurrences
VTPML07	Investigating Evasive Techniques in SMS Spam Filtering	This project compares different machine learning models in the context of SMS spam filtering, focusing on identifying and mitigating evasion techniques used by spammers
VTPML08	Enhancing the Prediction of Employee Turnover With Knowledge Graphs and Explainable AI	This project aims to improve the prediction of employee turnover by leveraging knowledge graphs and incorporating explainable AI techniques to provide insights into the underlying factors
VTPML09	Cardio-tocography Data Analysis for Fetal Health Classification Using Machine Learning Models	This project utilizes machine learning models to analyze cardio-tocography data and classify fetal health status, potentially aiding in early detection of potential complications

CODE	TITLE	DESCRIPTION
VTPML10	Head injury detection using machine learning	This project explores the application of machine learning algorithms to detect head injuries, potentially assisting in medical diagnosis and treatment.
VTPML11	Predicting Heart Diseases Using Machine Learning and Different Data Classification Techniques	This project investigates the use of various machine learning classification techniques for predicting the occurrence of heart diseases based on patient data
VTPML12	Liver Cirrhosis Stage Classification using Machine Learning	This project focuses on developing machine learning models to accurately classify the stage of liver cirrhosis based on patient data and clinical observations
VTPML13	Identification of Social Anxiety in High School: A Machine Learning Approaches to Real-Time Analysis of Student Characteristics	This project utilizes machine learning techniques to identify social anxiety in high school students by analyzing real-time data related to student characteristics and behavior
VTPML14	Predicting Hospital Stay Length Using Explainable Machine Learning	This project aims to predict the length of hospital stays for patients using explainable machine learning models, providing valuable insights for healthcare resource planning and patient care
VTPML15	Optimal Ensemble Learning Model for Dyslexia Prediction Based on an Adaptive Genetic Algorithm	This project develops an optimal ensemble learning model for predicting dyslexia using an adaptive genetic algorithm to optimize the combination of different machine learning models
VTPML16	Toward Improving Breast Cancer Classification Using an Adaptive Voting Ensemble Learning Algorithm	This project explores the use of an adaptive voting ensemble learning algorithm to improve the accuracy and robustness of breast cancer classification models
VTPML17	Machine Learning based Method for Insurance Fraud Detection on Class Imbalance Datasets with Missing Values	This project focuses on developing a machine learning-based method for detecting insurance fraud in datasets with class imbalance and missing values.
VTPML18	An Approach for Crop Prediction in Agriculture: Integrating Genetic Algorithms and Machine Learning	This project investigates an approach for predicting crop yields in agriculture by integrating genetic algorithms with machine learning techniques

CODE	TITLE	DESCRIPTION	IEEE 2024 - MACHINE LEARNING
VTPML19	Novel Machine Learning Techniques for Classification of Rolling Bearings	This project explores novel machine learning techniques for the classification of rolling bearing conditions, which is crucial for equipment maintenance and reliability	
VTPML20	Enhancing Rice Production Prediction in Indonesia Using Advanced Machine Learning Models	This project aims to enhance the prediction of rice production in Indonesia by utilizing advanced machine learning models and considering various factors influencing crop yields	

CODE	TITLE	DESCRIPTION
VTPDL01	Exploring Deep Learning and Machine Learning Approaches for Brain Hemorrhage Detection	This project investigates the use of deep learning and machine learning techniques for the detection of brain hemorrhages, potentially aiding in rapid diagnosis and treatment
VTPDL02	Multi-Class Kidney Abnormalities Detecting Novel System Through Computed Tomography	This project aims to develop a novel system for detecting multiple types of kidney abnormalities using computed tomography scans and deep learning algorithms
VTPDL03	Medicinal Plant Classification Using Particle Swarm Optimized Cascaded Network	This project explores the classification of medicinal plants using a cascaded network optimized by particle swarm optimization, potentially aiding in the identification and preservation of valuable plant species
VTPDL04	Effective Hypertension Detection Using Predictive Feature Engineering and Deep Learning	This project focuses on developing an effective hypertension detection system by combining predictive feature engineering with deep learning models
VTPDL05	Innovations in Stroke Identification: A Machine Learning-Based Diagnostic Model Using Neuro images	This project investigates innovative machine learning-based approaches for identifying strokes using neuro imaging data, potentially improving diagnostic accuracy and speed
VTPDL06	RoI-Attention Network for Small Disease Segmentation in Crop Leaf Images	This project develops a region-of-interest attention network for segmenting small diseases in crop leaf images, aiding in the early detection and management of plant diseases
VTPDL07	Classification of Down Syndrome in Children Using Neural Networks	This project explores the use of neural networks to classify Down syndrome in children based on various clinical and imaging data
VTPDL08	A Large Dataset to Enhance Skin Cancer Classification with Transformer-Based Deep Neural Networks	This project involves creating a large dataset to improve skin cancer classification using transformer-based deep neural networks, potentially leading to more accurate and reliable diagnoses
VTPDL09	A Reliable and Robust Deep Learning Model for Effective Recyclable Waste Classification	This project focuses on developing a deep learning model for accurate and efficient classification of recyclable waste, contributing to environmental sustainability efforts

CODE	TITLE	DESCRIPTION
VTPDL10	CiFake: Image Classification and Explainable Identification of Ai-Generated Synthetic Images	This project aims to develop CIFAKE, a system for classifying images and identifying AI-generated synthetic images using explainable deep learning techniques
VTPDL11	Paddy Leaf Disease Classification Using Efficient Net B4 With Compound Scaling and Swish Activation: A Deep Learning Approach	This project investigates the use of EfficientNet B4 with compound scaling and swish activation for classifying paddy leaf diseases, potentially aiding in the prevention and management of crop diseases
VTPDL12	Explainable Deep Learning to Classify Royal Navy Ships	This project explores the application of explainable deep learning techniques to classify Royal Navy ships based on various visual and sensor data
VTPDL13	Tomato Quality Classification Based on Xception Algorithm Classifiers	This project focuses on classifying tomato quality by combining transfer learning feature extraction with machine learning classifiers, potentially aiding in the agricultural industry
VTPDL14	Automatic Classification of White Blood Cells Using Deep Learning Models	This project investigates the use of a semi-supervised convolutional neural network for the automatic classification of white blood cells, potentially assisting in medical diagnosis
VTPDL15	OTONet: Deep Neural Network for Precise Otoscopy Image Classification	This project aims to develop OTONet, a deep neural network for accurate classification of otoscopy images, potentially aiding in the diagnosis of ear-related conditions
VTPDL16	JutePest-YOLO: A Deep Learning Network for Jute Pest Identification and Detection	This project develops JutePest, a deep learning network for identifying and detecting jute pests, potentially contributing to the protection and improvement of jute crop yields
VTPDL17	Federated Deep Learning for Monkeypox Disease Detection	This project explores the use of federated deep learning techniques for detecting Monkeypox disease while preserving patient privacy and data security
VTPDL18	Multi-Fruit Classification and Grading	This project focuses on developing a system for classifying and grading multiple types of fruits based on various quality parameters using deep learning algorithms

CODE	TITLE	DESCRIPTION	
VTPDL19	Classification of Oral Cancer into Pre-Cancerous Stages from White Light Images	This project investigates the classification of oral cancer into pre-cancerous stages using white light images and deep learning techniques, potentially aiding in early detection and treatment	IEEE 2024 - DEEP LEARNING
VTPDL20	YogaPoseNet: Advanced Yogic Posture Classification Using NASNet Architecture	This project classifies different poses of a yoga using deep learning neural networks specifically with NASNet	