

Papers for Individual Assignment (Applied Machine Learning) – 2024

	Theme	Paper Title	url
1.	Health	Predicting hospital length of stay using machine learning on a large open health dataset	url
2.		Tackling prediction uncertainty in machine learning for healthcare	url
3.		Diagnosis of normal chest radiographs using an autonomous deep-learning algorithm	url
4.		A ensemble methodology for automatic classification of chest X-rays using deep learning	url
5.		Deep Learning Algorithms to Identify Autism Spectrum Disorder in Children-Based Facial Landmarks	url
6.	Agriculture	Towards leveraging the role of machine learning and artificial intelligence in precision agriculture and smart farming	url
7.		Plant disease detection using hybrid model based on convolutional autoencoder and convolutional neural network	url
8.		Seasonal Crops Disease Prediction and Classification Using Deep Convolutional Encoder Network	url
9.	Manufacturing	TWIN-ADAPT: Continuous Learning for Digital Twin-Enabled Online Anomaly Classification in IoT-Driven Smart Labs	url
10.		Learning More with Less Data in Manufacturing: The Case of Turning Tool Wear Assessment through Active and Transfer Learning	url
11.		Electric Vehicle Usage Patterns in Multi-Vehicle Households in the US: A Machine Learning Study	url
12.	Cyber security	Detection of Denial-of-Service Attack in Wireless Sensor Networks: A Lightweight Machine Learning Approach	url
13.		Explainable Unsupervised Machine Learning for Cyber-Physical Systems	url
14.		Evolutionary Deep Belief Network for Cyber-Attack Detection in Industrial Automation and Control System	url
15.		Attack Detection for Securing Cyber Physical Systems	url
16.	Business and Finance	AI-powered ensemble machine learning to optimize cost strategies in logistics business	url
17.		E-commerce customer churn prevention using machine learning-based business intelligence strategy	url
18.		Mathematical Modeling and Analysis of Credit Scoring Using the LIME Explainer: A Comprehensive Approach	url
19.		Soft reordering one-dimensional convolutional neural network for credit scoring	url
20.		A novel federated learning approach with knowledge transfer for credit scoring	url
21.		Employee Performance Prediction: An Integrated Approach of Business Analytics and Machine Learning	url
22.		AI-driven ensemble three machine learning to enhance digital marketing strategies in the food delivery business	url
23.		E-commerce customer churn prevention using machine learning-based business intelligence strategy	url
24.	Education	Performance and early drop prediction for higher education students using machine learning	url
25.		Classification and prediction of student performance data using various machine learning algorithms	url
26.		Data Mining and Machine Learning Retention Models in Higher Education	url
27.	Transportation	Traffic Prediction for Intelligent Transportation System using Machine Learning	url
28.		Traffic Flow Forecast using Time Series Analysis based on Machine Learning	url
29.		Deep Learning Based Traffic Accident Detection in Smart Transportation: A Machine Vision-Based Approach	url
30.		Machine learning approach for predictive maintenance of transport systems	url