

Appendix A: Complete List of ML Applications in Different Domains

Table A-1: ML Applications in Industry 4.0 and Manufacturing Domain

Source	Year	ML Method	ML Algorithm	Application of ML
(Rentsch et al., 2015)	2015	Deep Learning	Artificial Neural Network (ANN)	Cost & Energy Prediction
(Sumesh et al., 2015)	2015	Supervised	Random Forest (RF)	Quality Control: Process Line Quality
(Prieto-Moreno & ..., 2015)	2015	Unsupervised	Principal Component Analysis (PCA)	Process Fault Detection
(Harrou et al., 2015)	2015	Unsupervised	Principal Component Analysis (PCA)	Anomaly Detection
(Xu et al., 2015)	2015	Unsupervised	Principal Component Analysis (PCA)	Outlier Detection in Dynamic Datasets
(H. Yu, Khan, & Control, 2015)	2015	Unsupervised	Independent Component Analysis (ICA)	Process Fault Detection
(Y. Liu et al., 2015)	2015	Unsupervised	Independent Component Analysis (ICA)	Process Fault Detection
(H. Yu, Khan, & Garaniya, 2015)	2015	Unsupervised	Independent Component Analysis (ICA)	Process Fault Detection
(Jiang et al., 2015)	2015	Unsupervised	Independent Component Analysis (ICA)	Process Fault Detection
(Cai & Engineering, 2015)	2015	Unsupervised	Independent Component Analysis (ICA)	Process Fault Detection
(Loboda et al., 2015)	2015	Deep Learning	Artificial Neural Network (ANN)	Fault Diagnosis
(Fu et al., 2015)	2015	Deep Learning	Artificial Neural Network (ANN)	Prediction of specific Characteristics
(Pian & Neurocomputing, 2015)	2015	Deep Learning	Artificial Neural Network (ANN)	Temperature Control
(Pani & transactions, 2015)	2015	Deep Learning	Artificial Neural Network (ANN)	Particle Size Control
(T. Liu et al., 2015)	2015	Deep Learning	Artificial Neural Network (ANN)	Tool Condition Monitoring (TCM)
(Gholami & and, 2015)	2015	Deep Learning	Artificial Neural Network (ANN)	Soft Sensor Design
(Tian et al., 2015)	2015	Supervised	Support Vector Machine (SVM)	Steel Plates Fault Diagnosis
(You et al., 2015)	2015	Supervised	Support Vector Machine (SVM)	Process Monitoring & Defect Diagnosis
(Pooyan et al., 2015)	2015	Supervised	Support Vector Machine (SVM)	Fault Diagnosis
(Saidi et al., 2015)	2015	Supervised	Support Vector Machine (SVM)	Bearing Faults Classification
(Jing & Neurocomputing, 2015)	2015	Supervised	Support Vector Machine (SVM)	Fault Classification for Complicated Industrial Process
(D. Zhang et al., 2015)	2015	Supervised	Support Vector Machine (SVM)	Online Monitoring of Precision Optics Grinding
(W. Wang & Systems, 2015)	2015	Supervised	Support Vector Machine (SVM)	Melt Index Prediction
(H. Jin et al., 2015)	2015	Supervised	Support Vector Machine (SVM)	Adaptive Soft Sensor
(Shamshirband et al., 2015)	2015	Supervised	Support Vector Machine (SVM)	Sensor Data Fusion

Source	Year	ML Method	ML Algorithm	Application of ML
(Y. Lv et al., 2015)	2015	Supervised	K Nearest Neighbors (K-NN)	NOx Emission Prediction
(A. Wang et al., 2015)	2015	Supervised	K Nearest Neighbors (K-NN)	Accelerating Wrapper-Based Feature Selection
(Gins et al., 2015)	2015	Supervised	K Nearest Neighbors (K-NN)	Batch Process Fault Diagnosis Performance Improvement
(Biswal & on, 2015)	2015	Deep Learning	Artificial Neural Network (ANN)	Investigating Time Domain Vibration Signatures for Critical Components
(Susto et al., 2015)	2015	Supervised	Support Vector Machine (SVM) K Nearest Neighbors (K-NN)	Predicting Maintenance for Integral Faults Type in Tungsten Filament-Ion Implantation
(Dixon et al., 2015)	2015	Deep Learning	Artificial Neural Network (ANN)	Ergonomics - Mental Workload Evaluation: Assessing Mental Workload, Job satisfaction, and Efficiency with respect to Health, Safety, Environment, and Ergonomics Factors using Survey Data
(Jacobsbmühlen & ..., 2015)	2015	Supervised	Random Forest (RF) Support Vector Machine (SVM)	Optical-Based Monitoring: Detect Elevated Regions after Laser Exposure
(R. C. Wang et al., 2015)	2015	Unsupervised	Principal Component Analysis (PCA)	Process Fault Detection
(Prytz et al., 2015)	2015	Supervised	Random Forest (RF)	Detect Forthcoming Faults for Trucks and Buses Air Compressors
(Loyer et al., 2016)	2016	Supervised Unsupervised Deep Learning	Support Vector Machine (SVM) Random Forest (RF) Artificial Neural Network (ANN)	Cost & Energy Prediction
(Huber et al., 2016)	2016	Supervised	Decision Tree (DT)	Quality Control: Quality Cost Reduction
(Durbhaka & on, 2016)	2016	Supervised	Support Vector Machine (SVM) K Nearest Neighbors (K-NN)	Fearing Fault Detection in Wind Turbine
(Lipovits et al., 2016)	2016	Supervised	Decision Tree (DT)	Ergonomics - Task Assignment
(H. Wu et al., 2016)	2016	Unsupervised	K-Means Clustering	Acoustic –Based Monitoring: FDM - Identify Failure Mode
(Quiroz et al., 2016)	2016	Supervised	Random Forest (RF)	Detect a Broken Rotor Bar Failure in LS-PMSM
(Vazan et al., 2017)	2017	Supervised Deep Learning	K Nearest Neighbors (K-NN) Random Forest (RF) Support Vector Machine (SVM) Artificial Neural Network (ANN)	Process Control & Optimization: Process and Tool Condition Forecast
(Pan et al., 2017)	2017	Deep Learning	Convolutional Neural Networks (CNNs)	Acoustic Classification, Signal Based Anomaly Detection, Signal Processing, Sensor Array Processing
(Yan & on, 2017)	2017	Supervised	Random Forest (RF)	Fault Prediction in Aircraft
(Santos et al., 2017)	2017	Supervised	Random Forest (RF)	Detecting the Inter-Turn Short-Circuits for Induction Motor 2.2 kW
(Canizo et al., 2017)	2017	Supervised	Random Forest (RF)	Predicting Wind Turbine Status- Alarm Activations & Deactivation

Source	Year	ML Method	ML Algorithm	Application of ML
(J. Mathew et al., 2017)	2017	Supervised	Support Vector Machine (SVM)	Prognostics Prediction of Multiple Time Series Tasks for Aircraft Gas Turbine Engine
(V. Mathew et al., 2017)	2017	Supervised Unsupervised	Logistic Regression (LR) Decision Tree (DT) Random Forest (RF) K Nearest Neighbors (K-NN) K-Means Clustering	Predicting Sensor Run-to-Failure for RUL of Aircraft-Turbofan Engine
(Z. Li et al., 2017)	2017	Deep Learning	Artificial Neural Network (ANN)	Preventive Maintenance: Fault Prediction
(D. Wu et al., 2017)	2017	Supervised	K Nearest Neighbors (K-NN) Random Forest	Optical-Based Monitoring: Detect Malicious Infill Structure
(L. Wen et al., 2017)	2017	Deep Learning	Artificial Neural Network (ANN)	Machine Fault Diagnosis: Motor Bearing and Pump
(Janssens et al., 2017)	2017	Deep Learning	Convolutional Neural Networks (CNNs)	Detect Several Conditions of Rotary Machinery
(Eke et al., 2017)	2017	Unsupervised	K-Means Clustering Principal Component Analysis (PCA)	Classifying Dissolved Gases in Oil-Immersed Power Transformer
(Lubosch et al., 2018)	2018	Supervised	Random Forest (RF)	Geometric and Image-Based Prediction
(Waschneck et al., 2018)	2018	Reinforcement Learning	Q-Learning	Logistics: Scheduling
(Haslgrübler et al., 2018)	2018	Deep Learning	Artificial Neural Network (ANN)	Assembly: Assembly Assistance
(Küfner et al., 2018)	2018	Deep Learning	Artificial Neural Network (ANN)	Process Control & Optimization: Process and Tool Condition Forecast
(Huuhtanen & (dsw), 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Wireless Sensor to Predict Power-Curve of Functioning Panel
(Y. Zhang, Liu, et al., 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Sarter Degradation Monitoring
(Amihai et al., 2018)	2018	Supervised	Random Forest (RF)	Fault Detection in Industrial Pumps Vibration
(Paolanti et al., 2018)	2018	Supervised	Random Forest (RF)	Permits Dynamic Decision Rules for Cutting Machine
(Kulkarni et al., 2018)	2018	Supervised	Random Forest (RF)	Early Detection Refrigeration Systems of a Supermarket
(Su & Engineering, 2018)	2018	Supervised	Random Forest (RF)	Pd.M. of HDD Failure Detection Based on Apache Spark
(Xiang et al., 2018)	2018	Supervised	Random Forest (RF)	Increasing Efficiency and Reduce Maintenance Costs for Vending Machines
(Uhlmann et al., 2018)	2018	Unsupervised	K-Means Clustering	Predictive Maintenance for Cluster identification of sensors in Laser Melting Machine
(Amihai, Chioua, et al., 2018)	2018	Unsupervised	K-Means Clustering	Machine Health Predictions based on Vibration sensors
(Z. Liu et al., 2018)	2018	Deep Learning	Artificial Neural Network (ANN)	Preventive Maintenance: Fault Prediction
(B. Schmidt & manufacturing, 2018)	2018	Supervised	K Nearest Neighbors (K-NN) Decision Tree (DT) Random Forest (RF)	Preventive Maintenance: Time to Fail

Source	Year	ML Method	ML Algorithm	Application of ML
(Zhou & conference, 2018)	2018	Supervised	K Nearest Neighbors (K-NN) Support Vector Machine (SVM)	Preventive Maintenance: Fault Classification
(Adhikari et al., 2018)	2018	Supervised	Support Vector Machine (SVM) Decision Tree (DT) Random Forest (RF)	Preventive Maintenance: Fault Classification & Anomaly Detection
(Nath et al., 2018)	2018	Supervised	Logistic Regression	Ergonomics - Sensing-Based Activity Assessment: Monitoring Risk of Overexertion using Body-Mounted Wearable Sensors
(Bortolini et al., 2018)	2018	Deep Learning	Artificial Neural Network (ANN)	Ergonomics - Motion Analysis Through Videos: Motion Analysis System (MAS) to assess Ergonomic Risk in Manual & Assembly Activities through capturing Operator Movements and Postures
(Baghdadi et al., 2018)	2018	Supervised	Support Vector Machine (SVM)	Ergonomics - Mental Workload Evaluation: Detecting changes in Gait Parameters by wearable Sensors and Classifying the states into Fatigued and Non-fatigued ones following an Occupational Task
(P. Wang et al., 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Ergonomics -Human-Robot Collaboration: Deep Learning Based Human Motion Recognition Techniques
(D. Ye, Hong, et al., 2018)	2018	Supervised Deep Learning	Support Vector Machine (SVM) Convolutional Neural Networks (CNNs)	Acoustic –Based Monitoring: Defect Detection in Selective Laser Melting Technology - Classify Melting States
(Y. Zhang, Hong, et al., 2018)	2018	Supervised	Support Vector Machine (SVM)	Optical-Based Monitoring: Detect Anomalies of Melt Tracks
(D. Ye, Hsi Fuh, et al., 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Optical-Based Monitoring: Classify Melting States
(Delli & Chang, 2018)	2018	Supervised	Support Vector Machine (SVM)	Optical-Based Monitoring: Classify good and Defective Parts
(Lasisi et al., 2019)	2019	Supervised	Random Forest (RF) Support Vector Machine (SVM)	Track Defects for Railways - Mile Track
(Brik et al., 2019)	2019	Supervised	Logistic Regression (LR) Decision Tree (DT) Random Forest (RF)	Manufacturing Process Planning
(Ma et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Quality Control: Quality Cost Reduction
(Lavrik et al., 2019)	2019	Deep Learning	Artificial Neural Network (ANN)	Quality Control: Quality Cost Reduction
(Staar et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Quality Control: Quality Cost Reduction

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(Pachner et al., 2019)	2019	Supervised	Decision Tree (DT)	Quality Control: Process Line Quality
(Pinto & Science, 2019)	2019	Supervised Deep Learning	K Nearest Neighbors (K-NN) Random Forest (RF) Convolutional Neural Networks (CNNs)	Predictive Maintenance: Remaining Useful Life
(Prabu, 2018)	2019	Supervised Deep Learning	Random Forest (RF) Artificial Neural Network (ANN)	Predictive Maintenance: Remaining Useful Life
(Hwang et al., 2019)	2019	Deep Learning	Artificial Neural Network (ANN)	Process Control & Optimization: Process and Tool Condition Forecast
(Janssens & ..., 2019)	2019	Supervised	Random Forest (RF)	Sarter Degradation Monitoring
(Carbery et al., 2019)	2019	Supervised	Random Forest (RF)	Fault Detection in Production Line and Semiconductor to Bosch and SECOM datasets
(R. Guo et al., 2019)	2019	Supervised	Random Forest (RF) Support Vector Machine (SVM)	Oil Leakage Fault Prognostics for Actuators in Aircraft
(Sossenheimer et al., 2019)	2019	Supervised Deep Learning	Artificial Neural Network (ANN)	Process Control & Optimization: Process and Tool Condition Forecast
(K. Gao et al., 2019)	2019	Supervised	Decision Tree (DT)	Product Material Removal Prediction: Robotic Grinding
(W. Song et al., 2019)	2019	Unsupervised	K-Means Clustering	Machine Defect Identification: Manufacturing Systems
(Hesser et al., 2019)	2019	Deep Learning	Artificial Neural Network (ANN)	Tool Wear Monitoring of a CNC-MM with Equipped Built-In Sensors
(Sampaio et al., 2019)	2019	Deep Learning	Artificial Neural Network (ANN)	Predict Equipment Failure Time
(Falamarzi et al., 2019)	2019	Deep Learning	Artificial Neural Network (ANN)	Tracking Gauge Deviation and Measurements Prediction
(Márquez & Energies, 2019)	2019	Deep Learning	Artificial Neural Network (ANN)	Preventive Maintenance: Anomaly detection
(Kim et al., 2019)	2019	Deep Learning	Deep Neural Networks (DNNs)	Ergonomics - Human-Robot Collaboration: Improving Human Ergonomics and Reconfigurability of Production/Assembly through Real-Time Adaptation to Human Dynamic Factors and Intentions
(Caggiano et al., 2019)	2019	Supervised Deep Learning	Support Vector Machine (SVM) Convolutional Neural Networks (CNNs)	Optical-Based Monitoring: Recognizing Defects induced by Process Non-conformities
(Kuhnle et al., 2019)	2019	Reinforcement Learning	Adaptive Order Dispatching	Logistics: Scheduling
(Daniyan et al., 2020)	2020	Deep Learning	Convolutional Neural Networks (CNNs)	Preventive Maintenance-RUL Estimation
(Y. Yuan, Ma, et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Preventive Maintenance: RUL Estimation
(Aremu, 2020)	2020	Supervised	K Nearest Neighbors (K-NN)	Faults Detection during the Asset's Life Cycle

Source	Year	ML Method	ML Algorithm	Application of ML
(M. Huang et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Preventive Maintenance: Data Fusion
(Cheng, Chen, Chen, Construction, et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Preventive Maintenance: Condition Prediction
(Oberc et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	AI Training: Object Recognition
(Ning et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	System Cost Estimation
(Badmos et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Product Defect Detection: Battery Manufacturing
(Subramaniyan et al., 2020)	2020	Unsupervised	K-Means Clustering	System Condition Monitoring Manufacturing Condition Monitoring
(Bekar et al., 2020)	2020	Unsupervised	K-Means Clustering	Production Monitoring System
(Cheng, Chen, Chen, & Construction, 2020)	2020	Supervised Deep Learning	Support Vector Machine (SVM) Artificial Neural Network (ANN)	Predictive Maintenance using BIM and IoT to Improve Feasibility of FMM Process
(Onur & ..., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Reduce the Unplanned Production Downtime Costs in Robot Packaging
(Gohel et al., 2020)	2020	Supervised	Support Vector Machine (SVM) Logistic Regression (LR)	Predict Maintenance of Nuclear Infrastructure
(Kearland et al., 2020)	2020	Supervised	Decision Tree (DT) Random Forest (RF) Logistic Regression (LR)	Oil Analysis of Gearbox-Diagnostic Tool in PdM
(Hoffmann et al., 2020)	2020	Supervised	K Nearest Neighbors (K-NN)	Predictive Maintenance for Medium Voltage Switchgear
(Dangut et al., 2020)	2020	Supervised	Random Forest (RF)	Predicts Aircraft Failure that leads to Component Replacement
(Karlsson, 2020)	2020	Supervised	Logistic Regression (LR)	Failure Prediction for Jet Engine Blades
(Eriksson, 2020)	2020	Supervised	Logistic Regression (LR) Support Vector Machine (SVM)	Failure Prediction for Wind Turbine
(Kaparthi et al., 2020)	2020	Supervised	Decision Tree (DT) Random Forest (RF) Logistic Regression (LR)	Predictive Maintenance Systems using SMART Sensors
(Conforti et al., 2020)	2020	Supervised	Support Vector Machine (SVM) Random Forest (RF)	Ergonomics - Sensing-Based Activity Assessment: Measuring Biomechanical Risk in Lifting Load Tasks
(L. Li et al., 2020)	2020	Deep Learning	Convolutional Neural Networks (CNNs)	Ergonomics - Motion Analysis Through Videos: Estimating Rapid Upper Limb Assessment (RULA) Action Levels
(Y. Li, Greene, et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Ergonomics - Risk Stratification of Physical Workload: Automatic Measurement of Lifting Load
(Asgher et al., 2020)	2020	Supervised Deep Learning	Support Vector Machine (SVM) Convolutional Neural Networks (CNNs)	Ergonomics - Mental Workload Evaluation: Classification of mental workload (MWL)

Source	Year	ML Method	ML Algorithm	Application of ML
(Asadi et al., 2020)	2020	Deep Learning	Deep Neural Networks (DNNs)	Ergonomics - Occupational Safety: Studying Musculoskeletal Injuries
(Taghi-Molla et al., 2020)	2020	Deep Learning	Bayesian Neural Networks (BNNs)	Ergonomics - Occupational Safety: Studying Effects of Macro-Ergonomics Indicators on System Safety Efficiency
(Abubakar et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Ergonomics - Workplace Environment: Analyzing Effect of Organizational Safety Climate and Behavior on Workplace Injuries
(Preprints & 2021, 2021)	2021	Supervised	Logistic Regression (LR) Decision Tree (DT) Random Forest (RF)	Process Control & Optimization: Production Line
(Jian et al., 2021)	2021	Deep Learning	Artificial Neural Network (ANN)	Cloud Manufacturing
(Rönsch et al., 2021)	2021	Deep Learning	Artificial Neural Network (ANN)	Process Improvement and Optimization
(Zangaro et al., 2021)	2021	Deep Learning	Artificial Neural Network (ANN)	Process Improvement and Optimization
(D. Zhang et al., 2021)	2021	Deep Learning	Artificial Neural Network (ANN)	Soft Sensor of Flotation Froth Grade Classification
(Glaeser et al., 2021)	2021	Deep Learning	Artificial Neural Network (ANN)	Fault Detection in Industrial Cold Forging
(Lorenz et al., 2021)	2021	Deep Learning	Artificial Neural Network (ANN)	Process Improvement and Optimization
(Kasim et al., 2021)	2021	Unsupervised	K-Means Clustering	Machine Tool Condition Clustering-Autonomous Manufacturing
(Lima et al., 2021)	2021	Unsupervised	K-Means Clustering	Machine Tool Health Monitoring
(S. Guo et al., 2021)	2021	Unsupervised	K-Means Clustering	Process Condition Monitoring Manufacturing Condition Monitoring
(Frye et al., 2021)	2021	Supervised	Support Vector Machine (SVM) Regression Decision Tree (DT)	Jet engine compressor component manufacturing
(Rosa & ..., 2022)	2022	Deep Learning	Convolutional Neural Networks (CNNs)	Product Defect Detection
(Krahe et al., 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Product Design
(Srivastava et al., 2022)	2022	Unsupervised	Principal Component Analysis (PCA)	Correlation between Process and Quality
(Westphal & Manufacturing, 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Product Quality Assurance-Fused Deposition Modeling
(Qin et al., 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Process Optimization-Wire Arc Additive Manufacturing
(Lapointe et al., 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Process Parameter Optimization- Laser Powder Bed Fusion
(T. Zhang et al., 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Process Object Detection-Robotic Grasp
(S. Singh et al., 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Product Defect Detection-Roller Manufacturing
(Duan et al., 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Machine Tool Condition Monitoring

Source	Year	ML Method	ML Algorithm	Application of ML
(Gawade & Systems, 2022)	2022	Supervised	Decision Tree (DT)	Product Porosity Prediction Powder-Bed Additive Manufacturing
(Sarita et al., 2022)	2022	Unsupervised	Principal Component Analysis (PCA)	Machine Predictive Maintenance-Fan-Motor System
(Cohen et al., 2022)	2022	Unsupervised	Principal Component Analysis (PCA)	Machine Anomaly Detection-Programmable Logic Controllers

Table A-2: ML Applications in the Additive Manufacturing Domain

Source	Year	ML Method	ML Algorithm	Application of ML
(Yao et al., 2017)	2017	Unsupervised Deep Learning	Hierarchical Clustering Artificial Neural Network (ANN)	Design Feature Recommendation
(Tang et al., 2017)	2017	Deep Learning	Artificial Neural Network (ANN)	Part Design - Lattice Structure Design and Optimization to Ensure Product Quality
(DeCost et al., 2017)	2017	Unsupervised Supervised	Principal Component Analysis (PCA) Support Vector Machine (SVM)	Material Analytics - Characterize Powder Feedstock Materials
(Z. Zhu et al., 2018)	2018	Deep Learning	Artificial Neural Network (ANN)	Shape Deviation - Shape Deviation Prediction
(Y. Li et al., 2018)	2018	Deep Learning	Artificial Neural Network (ANN)	Shape Deviation - Model Relationship between Process Parameters and Geometry-Related Errors
(Y. Zhang et al., 2019)	2019	Unsupervised	K-Means Clustering	Design Optimization - Redesign Surface Models to generate Alternative Build Orientations
(J. Huang et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Design Optimization - Support Detection
(Ferreira & ..., 2019)	2019	Deep Learning	Bayesian Neural Networks (BNNs)	Shape Deviation - Shape Deviation Modeling
(Shen et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Shape Deviation - Error Compensation in 3D Printing
(Després et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Part Design - Analysis and Design of Micro-Lattices Architectures
(Alejandrino et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Part Design - Geometry Corrections of Designed Lattice Infill Patterns in FDM Systems
(Yanamandra et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Design Optimization -Reverse Engineering of Manufactured Composite Part by Toolpath Reconstruction
(Q. Huang et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Shape Deviation - Learning and Predicting 3-D Printing Shape Accuracy
(Lew & Buehler, 2021)	2021	Deep Learning	Artificial Neural Network (ANN)	Part Design - Encoding and Exploring Latent Design Space of Optimal Material Structures
(Nikzad et al., 2025)	2022	Supervised	Decision Tree (DT) Bayesian Ridge Regression (BR)	Predicting the UTS of 3D-printed PLA parts

Source	Year	ML Method	ML Algorithm	Application of ML
(Khusheef et al., 2024)	2024	Deep Learning	Convolutional Neural Networks (CNNs)	Sensor Combinations Exploration
(K. Tan et al., 2024)	2024	Supervised	Clustering & Classifications	Lightweight & Efficient LPBF layer-wise Defect Detection
(M. Singh et al., 2025)	2025	Supervised	Clustering	Identify & Classify three high-impact FDM Defect
(de Araújo et al., 2025)	2025	Supervised	Clustering	Solve a 3DIP Instance

Table A-3: ML Applications in the Finance & Banking Domain

Source	Year	ML Method	ML Algorithm	Application of ML
(Patel et al., 2015)	2015	Supervised Deep Learning	Support Vector Machine (SVM) Artificial Neural Network (ANN)	Stock Market: Stock Market Prediction
(Gal et al., 2016)	2016	Deep Learning	Convolutional Neural Networks (CNNs)	Forecasting: Forecasting Uncertainties
(Gow et al., 2016)	2016	Supervised	Naive Bayes Classifier (NBC)	Measures of Corporate Executives' Characteristics
(Tran et al., 2016)	2016	Deep Learning Reinforcement Learning	Deep Neural Networks (DNNs) Deep Reinforcement Learning	Credit Risk: Personal finance variables
(Feuerriegel et al., 2016)	2016	Reinforcement Learning	Deep Reinforcement Learning	Asset Pricing and Derivatives: Stock Market Data
(T Renault, 2017)	2017	Supervised	Support Vector Machine (SVM)	Investment - Measures of Sentiment: Classifies User Posts on Finance-Focused Social Network StockTwits to construct a Measure of Investor Sentiment
(Culkin et al., 2017)	2017	Deep Learning	Deep Neural Networks (DNNs)	Option Pricing
(Chong et al., 2017)	2017	Deep Learning	Deep Neural Networks (DNNs)	Stock Market: Stock Market Analysis and Prediction
(Alberg & Lipton, 2017)	2017	Deep Learning	Convolutional Neural Networks (CNNs)	Risk management: Forecasting Fundamentals
(L. Zhu & data, 2017)	2017	Deep Learning	Deep Neural Networks (DNNs)	Forecasting: Time Series Forecasting
(Malik & Ahmad, 2019)	2017	Reinforcement Learning	Deep Reinforcement Learning	Credit Risk: Macro-Economic Variables and Bank Transactions
(Cabrita et al., 2017)	2017	Reinforcement Learning	Deep Reinforcement Learning	Fraud Management: Party Name, Type of Expends, State Expenses
(Y. Deng et al., 2017)	2017	Reinforcement Learning Deep Learning	Deep Reinforcement Learning Deep Neural Networks (DNNs)	Asset Pricing and Derivatives: Stock Market Data & Firm Data
(Verma et al., 2024)	2017	Reinforcement Learning	Deep Reinforcement Learning	Financial Text Mining: Index Data & News
(Sohangir et al., 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Extract the Sentiment of Messages in StockTwits Data
(Rawte et al., 2018)	2018	Reinforcement Learning	Deep Reinforcement Learning	Credit Risk: Weighted sentiment polarity and ROA
(Jeong & Park, 2018)	2018	Reinforcement Learning Deep Learning	Deep Reinforcement Learning Deep Neural Networks (DNNs)	Algo-Trading Text Mining: Total Profit & Correlation

Source	Year	ML Method	ML Algorithm	Application of ML
(Björkegren et al., 2018)	2018	Supervised	Random Forest (RF)	Prediction of Credit Risk: Credit Risk Predictions based on Data from Mobile Phones
(Pendharkar & Applications, 2018)	2018	Reinforcement Learning	Q-Learning	Stock Market: Trading Financial Indices
(De Spiegeleer et al., 2018)	2018	Supervised	Gaussian Process Regression	Forecasting: Quantitative Finance-Fast Derivative Pricing, Hedging and Fitting
(Giovannone et al., 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Forecasting: Volatility Model Calibration
(J. Han et al., 2018)	2018	Reinforcement Learning	Deep Reinforcement Learning	Fraud Management: Pricing & Interest Rates
(Hsu et al., 2018)	2018	Reinforcement Learning	Deep Reinforcement Learning	Asset Pricing and Derivatives: Fundamental Analysis & Option Price
(Mukhtar & -Bari, 2018)	2018	Reinforcement Learning Deep Learning	Deep Reinforcement Learning Deep Neural Networks (DNNs)	Algo-Trading Text Mining: Text and Price Data
(Lettau et al., 2018)	2018	Unsupervised	Principal Component Analysis (PCA)	Forecasting: Asset Price Forecasting
(Heryadi & Dandalina, 2019)	2019	Reinforcement Learning Deep Learning	Deep Reinforcement Learning Convolutional Neural Networks (CNNs)	Fraud Management: Financial Transactions Over Period
(Chinco et al., 2019)	2019	Supervised	LASSO Regression	Prediction Error Reduction in Economic Prediction Problems: Predicting Ultra-Short-Term Future Stock Returns based on the Cross-Section of Ultrashort-Term Historical Returns
(Colombo et al., 2019)	2019	Supervised	Support Vector Machine (SVM)	Prediction Error Reduction in Economic Prediction Problems: Predicting Direction of Changes in Exchange Rates based on Indicators of Market Uncertainty
(L. Chen et al., 2019a)	2019	Deep Learning	Deep Neural Networks (DNNs)	Prediction Error Reduction in Economic Prediction Problems: Using Generative Adversarial Networks with different Predictors, such as Firm Characteristics, Historical Returns, and Macroeconomic Indicators
(Albanesi & Vamossy, 2019)	2019	Deep Learning	Deep Neural Networks (DNNs)	Prediction of Credit Risk: Studying General Consumer Credit Default and deriving more accurate Predictions from Credit Bureau Data
(Sigrist et al., 2019)	2019	Supervised	Boosted Regression Trees	Econometrics: Enhancing the Traditional Econometric Methods called Tobit Model

Source	Year	ML Method	ML Algorithm	Application of ML
(Z. Tan et al., 2019)	2019	Supervised	Random Forest (RF)	Stock Market: Stock Selection
(Hoseinzade & Applications, 2019)	2019	Deep Learning	Recurrent Neural Networks (RNNs)	Stock Market: Stock Price Manipulation Detection
(Meng & Data, 2019)	2019	Reinforcement Learning	Q-Learning	Stock Market: Financial Market
(Y. Li et al., 2019)	2019	Deep Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Practical Algorithmic Trading
(Y. Hu & artificial, 2019)	2019	Deep Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Optimizing Finance Portfolio Management
(Jia et al., 2019)	2019	Deep Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Quantitative Trading on Stock Market
(Selvamuthu et al., 2019)	2019	Supervised Deep Learning	Support Vector Machine (SVM) Artificial Neural Network (ANN)	Stock Market: Stock Market Prediction
(D. Lv et al., 2019)	2019	Supervised Deep Learning Deep Reinforcement Learning	Random Forest (RF) Support Vector Machine (SVM) Recurrent Neural Networks (RNNs) Deep Reinforcement Learning	Stock Market: Algorithms for Stock Daily Trading Strategy
(L. Chen et al., 2019b)	2019	Deep Learning	Deep Neural Networks (DNNs)	Forecasting: Asset Price Forecasting
(Buehler et al., 2019)	2019	Deep Learning Reinforcement Learning	Deep Neural Networks (DNNs) Deep Reinforcement Learning	Forecasting: Quantitative Finance-Option Pricing and Hedging
(Cao et al., 2019)	2019	Deep Learning	Deep Neural Networks (DNNs)	Forecasting: Implied Volatility Movements
(Chakraborty, 2019)	2019	Reinforcement Learning	Deep Reinforcement Learning	Asset Pricing and Derivatives: Trading Market Data
(Sirignano & Giesecke, 2019)	2019	Deep Learning Reinforcement Learning	Deep Neural Networks (DNNs) Deep Reinforcement Learning	Algo-Trading Text Mining: Asset Price Data
(Ozbayoglu et al., 2020)	2020	Deep Learning Reinforcement Learning	Convolutional Neural Networks (CNNs) Deep Reinforcement Learning	Credit Risk: Order Details and Transaction Details
(X. Li, Huang, et al., 2020)	2020	Reinforcement Learning Deep Learning	Deep Reinforcement Learning Deep Neural Networks (DNNs)	Credit Risk: Personal finance variables
(McInish et al., 2020)	2020	Supervised	Random Forest (RF)	Prediction Error Reduction in Economic Prediction Problems: Predicting Lifespan of Orders based on Order Characteristics and Market Data
(Gu et al., 2020)	2020	Supervised	Support Vector Machine (SVM)	Investment - Measures of sentiment: Deriving Investor Sentiment from User Posts on Twitter
(J. Lee, 2020)	2020	Reinforcement Learning	Deep Reinforcement Learning	Financial Text Mining: Technical Indicators, Price Data, News
(Hrazdil et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Measures of Corporate Executives' Characteristics

Source	Year	ML Method	ML Algorithm	Application of ML
(Amel-Zadeh et al., 2020)	2020	Supervised	LASSO Regression	Prediction Error Reduction in Economic Prediction Problems: Predicting Abnormal Stock Returns around Earnings Announcements based on Financial Statement Variables
(B. Li & 3737667, 2020)	2020	Supervised	Boosted Regression Trees	Prediction Error Reduction in Economic Prediction Problems: Predicting Mutual Funds' Performance for Fund Selection
(Rossi & 10, 2020)	2020	Supervised	Boosted Regression Trees	Prediction Error Reduction in Economic Prediction Problems: Predicting changes in Investors' Portfolio Allocations and Performance
(Croux et al., 2020)	2020	Supervised	LASSO Regression	Prediction of Credit Risk: Predicting Fintech Loan Default from Loan and Borrower Characteristics as well as Macroeconomic Indicators
(Binsbergen & ..., 2020)	2020	Supervised	Random Forest (RF)	Prediction of Firm Outcomes and Financial Policy: Predicting Firms' Future Earnings based on their Accounting Data, Macroeconomic Data, and Analyst Forecasts
(Bao et al., 2020)	2020	Supervised	Boosted Regression Trees	Prediction of Firm Outcomes and Financial Policy: Predicting Accounting Fraud
(Brown et al., 2020)	2020	Supervised	Boosted Regression Trees	Prediction of Firm Outcomes and Financial Policy: Predicting Accounting Fraud based on Textual Analysis of Firms' Annual Reports.
(Parray et al., 2020)	2020	Supervised	Linear Regression Support Vector Machine (SVM)	Stock Market: Time Series Data Analysis of Stock Price Movement
(W. Khan et al., 2020)	2020	Supervised	Decision Tree (DT) Random Forest (RF)	Stock Market: Stock Market Predictability
(Y. Chen & Hao, 2020)	2020	Supervised	Support Vector Machine (SVM)	Stock Market: Stock Trading Signals Forecasting
(Naik et al., 2020)	2020	Deep Learning	Deep Neural Networks (DNNs)	Stock Market: Stock Market Predictability
(Y. Liu et al., 2020)	2020	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Adaptive Quantitative Trading
(X. Wu et al., 2020)	2020	Deep Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Adaptive Stock Trading Strategies
(Conegundes & Joint, 2020)	2020	Deep Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Beating Stock Market
(Y. Li, Ni, et al., 2020)	2020	Deep Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Stock Trading Strategies and Stock Forecasting
(Y. Yuan, Wen, et al., 2020)	2020	Deep Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Stock Market Prediction

Source	Year	ML Method	ML Algorithm	Application of ML
(Yang et al., 2020)	2020	Deep Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Automated Stock Trading
(Chakole & Kurhekar, 2020)	2020	Reinforcement Learning	Deep Q-Learning	Stock Market: Stock Trading Strategies
(H. Park et al., 2020)	2020	Reinforcement Learning	Deep Q-Learning	Stock Market: Trading Strategies
(Nabipour et al., 2020)	2020	Supervised Deep Learning	Decision Tree (DT) Random Forest (RF) Artificial Neural Network (ANN) Recurrent Neural Networks (RNNs)	Stock Market: Stock Market Prediction
(X. Yuan et al., 2020)	2020	Supervised Deep Learning	Support Vector Machine (SVM) Random Forest (RF) Artificial Neural Network (ANN)	Stock Market: Integrated Long-Term Stock Selection
(Obthong et al., 2020)	2020	Supervised	Support Vector Machine (SVM) K Nearest Neighbors (K-NN)	Stock Market: Stock Market Prediction
(Mosavi et al., 2020)	2020	Reinforcement Learning	Deep Reinforcement Learning	Algo-Trading Text Mining
(Mahmoudi, 2020)	2020	Deep Learning Reinforcement Learning	Convolutional Neural Networks (CNNs) Deep Reinforcement Learning	Financial Text Mining: Sentences, Stock-Twits Messages
(Chi et al., 2021)	2021	Reinforcement Learning Deep Learning	Deep Reinforcement Learning Convolutional Neural Networks (CNNs)	Financial Text Mining: Technical Indicators, Price Data, News
(D. V.-J. of B. and E. Finance, 2021)	2021	Deep Learning	Deep Neural Networks (DNNs)	Investment - Measures of sentiment: Using StockTwits but to Measure Investor Emotions by Extracting Different Emotional States from User Posts with Textual Analysis based on Deep Learning
(Azimi & Studies, 2021)	2021	Deep Learning	Deep Neural Networks (DNNs)	Investment - Measures of sentiment: Measuring Sentiment and Studying its Effect on Abnormal Returns and Trading Volumes
(M. Wang & Feng, 2021)	2021	Reinforcement Learning	Deep Reinforcement Learning	Asset Pricing and Derivatives: Firm Characteristics
(A. Hu & Ma, 2021)	2021	Supervised	Support Vector Machine (SVM)	Measures of Corporate Executives' Characteristics: Measure Three Dimensions of Emotions: Facial Emotions, Verbal Emotions, and Vocal Emotions
(Easley et al., 2021)	2021	Supervised	Random Forest (RF)	Prediction Error Reduction in Economic Prediction Problems: Predicting a variety of Variables Relevant for Market Participants, such as Bid-ask Spreads, Changes in Volatility, and Sequential Return Correlations from Established Microstructure Measures

Source	Year	ML Method	ML Algorithm	Application of ML
(P. T.-R. of Finance, 2021)	2021	Supervised	Boosted Regression Trees	Prediction of Credit Risk: Predicting Consumer Credit Default with based on Borrower and Loan Characteristics Data
(Bertomeu et al., 2021)	2021	Supervised	Boosted Regression Trees	Prediction of Firm Outcomes and Financial Policy: Predicting Material Misstatements based on a Large set of Potential Predictor Variables
(Adams et al., 2021)	2021	Deep Learning	Deep Neural Networks (DNNs)	Econometrics: Generating Artificial Paintings to Study Gender Discrimination in Art Prices
(Wysocki & Entropy, 2021)	2021	Deep Learning	Artificial Neural Network (ANN)	Option Pricing
(D. Park et al., 2021)	2021	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Practical Algorithmic Trading
(AbdelKawy et al., 2021)	2021	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Automated Multi-Stock Trading
(Data, 2021)	2021	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Trading
(Z. Li et al., 2021)	2021	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Quantitative Finance
(X. Y. Liu et al., 2021)	2021	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Automate Trading in Quantitative Finance
(Théate & Applications, 2021)	2021	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Algorithmic Trading
(Chakole et al., 2021)	2021	Reinforcement Learning	Q-Learning	Stock Market: Automated Trading in Equity Stock Markets
(D. Wu et al., 2021)	2021	Supervised Deep Learning	Decision Tree (DT) Random Forest (RF) K Nearest Neighbors (K-NN) Artificial Neural Network (ANN) Recurrent Neural Networks (RNNs)	Stock Market: Stock Market Prediction
(Applications, 2021)	2021	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Stock Market Prediction
(Ayala et al., 2021)	2021	Supervised Deep Learning	Random Forest (RF) Support Vector Machine (SVM) Artificial Neural Network (ANN)	Stock Market: Technical Analysis Strategy Optimization
(Rouf et al., 2021)	2021	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Stock Market Prediction
(Carta et al., 2021)	2021	Deep Learning Reinforcement Learning	Convolutional Neural Networks (CNNs) Deep Reinforcement Learning	Stock Market: A Multi-Layer and Multi-Ensemble Stock Trader
(Ghosh et al., 2021)	2021	Supervised	Random Forest (RF)	Stock Market: Forecasting Directional Movements of Stock Prices for Intraday Trading

Source	Year	ML Method	ML Algorithm	Application of ML
(Petroopoulos et al., 2022)	2022	Supervised Reinforcement Learning Deep Learning	Logistic Regression Deep Reinforcement Learning Deep Neural Networks (DNNs)	Credit Risk: Index Data & Exchange Rates
(V. Singh, Chen, Singhania, & ..., 2022)	2022	Reinforcement Learning Deep Learning	Deep Reinforcement Learning Convolutional Neural Networks (CNNs)	Asset Pricing and Derivatives: Stock Prices & Trade Data
(V. Singh, Chen, Singhania, Nanavati, et al., 2022)	2022	Reinforcement Learning	Deep Reinforcement Learning	Asset Pricing and Derivatives: Trading Data & Market Data
(Ang et al., 2022)	2022	Supervised	Boosted Regression Trees	Prediction of Firm Outcomes and Financial Policy: Predicting Startups' Valuations and their Probabilities of Success
(Zhe et al., 2022)	2022	Supervised Deep Learning	Support Vector Machine (SVM) Artificial Neural Network (ANN)	Stock Market: Predicting Stock Prices and Conducting Empirical Eesearch on China's A-share Market
(Raubitzek et al., 2022)	2022	Supervised	Linear Regression LASSO Regression Boosted Regression Trees	Stock Market: Stock Market Predictability
(Saini & Sharma, 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Stock Market: Stock Market Predictability
(Alameer et al., 2022)	2022	Reinforcement Learning	Q-Learning	Quantitative Trading
(W. Zhang et al., 2022)	2022	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Stock Trading Strategies
(Y. Li et al., 2022)	2022	Reinforcement Learning	Q-Learning	Stock Market: Stock Prediction and High-Frequency Trading
(X. Yu et al., 2023)	2023	Reinforcement Learning	Deep Reinforcement Learning	Stock Market: Dynamic Stock-Decision Ensemble Strategy
(Sahu et al., 2023)	2023	Reinforcement Learning	Q-Learning	Stock Market: Stock Trading
(M. Singh et al., 2024)	2024	Supervised	Naive Bayes Classifier (NBC) Support Vector Machine (SVM) Random Forest (RF)	Investment Prediction: Predicting Sentiment Impact on Banking Investments
(Arauco Ballesteros & Martínez Miranda, 2024)	2024	Reinforcement Learning	Deep Reinforcement Learning	Asset Pricing and Derivatives: Stock Market Data

Table A-4: ML Applications in the Computer Vision Domain

Source	Year	ML Method	ML Algorithm	Application of ML
(Huval et al., 2015)	2015	Deep Learning	Deep Neural Networks (DNNs)	Traffic Management: Traffic Prediction
(Durso et al., 2021a)	2021	Supervised	Support Vector Machine (SVM)	Facial Action Unit Detection
(Navarro et al., 2016)	2016	Deep Learning	Deep Neural Networks (DNNs)	Biology: Evaluate Crop Phenotyping and Phylogenetic Reconstructions
(Debats, 2017)	2017	Supervised	Random Forest (RF)	Food Security, Agricultural Production, Flood Prediction
(Skaret Karlsen, 2017)	2017	Deep Learning	Deep Neural Networks (DNNs)	Automated Weather Forecasting: Rainfall, Flood, Wind, Temperature, Humidity, and Front Detection
(Mitra, 2017)	2017	Deep Learning	Deep Neural Networks (DNNs)	Traffic Management: Detection of Traffic Flow on a Road and Categorization Cars, Bicycles, and Pedestrians
(J. Zhang et al., 2017)	2017	Supervised	K Nearest Neighbors (K-NN)	Biology: Robust Phenotyping in Genome-Wide Studies
(Shahjalal et al., 2017)	2017	Supervised	Logistic Regression (LR)	Performance Evaluation: Scoreboard Updating
(Gopalakrishnan et al., 2017)	2017	Supervised	Logistic Regression (LR) Support Vector Machine (SVM) Random Forest (RF)	Pavement Distress Detection
(H. Wang, Mazari, et al., 2018)	2018	Deep Learning	Deep Neural Networks (DNNs)	Traffic Management: Detect, Track, Count, and Manage Traffic (Pedestrians and Bicyclists)
(Sacchetti et al., 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Human Behaviours: Human Body Posture Detection & Emotion Recognition as Confident or Non-Confident
(Mora, 2018)	2018	Supervised	Support Vector Machine (SVM)	Predictive Maintenance: State of Machine Tools & Repairing
(H. Wang, Zheng, et al., 2018)	2018	Supervised	Support Vector Machine (SVM)	HealthCare: Breast Cancer Diagnosis
(Mubin et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Oil Palm Tree Counting
(Yunchao et al., 2019)	2019	Deep Learning	Deep Neural Networks (DNNs)	Clinical Decision Support: Breast Cancer Diagnosis
(Yunchao et al., 2019)	2019	Deep Learning	Deep Neural Networks (DNNs)	Clinical Decision Support: Endoscopic Image Enhancement
(Lu et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Object Detection
(Whatmough et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Efficient Hardware for Mobile
(J. Xie, 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Object Detection & Image Classification
(Luo et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Object Detection
(Brodzicki et al., 2020)	2020	Deep Learning	Convolutional Neural Networks (CNNs)	Medical Application: Thickness Prediction

Source	Year	ML Method	ML Algorithm	Application of ML
(Nayak et al., 2021)	2021	Supervised	Naive Bayes Classifier (NBC)	Spam Email Detection
(Kader et al., 2021)	2021	Deep Learning	Artificial Neural Network (ANN)	HealthCare: Brain Tumor Classification
(Durso et al., 2021b)	2021	Deep Learning	Convolutional Neural Networks (CNNs)	Snake Species Recognition
(He et al., 2021)	2021	Deep Learning	Convolutional Neural Networks (CNNs)	Image Classification

Table A-5: Application of ML in the Autonomous Systems & Robotics Domain

Source	Year	ML Method	ML Algorithm	Application of ML
(Gopalakrishnan et al., 2018)	2017	Deep Learning	Convolutional Neural Networks (CNNs)	Crack Damage Detection in Unmanned Aerial Vehicle Images of Civil Infrastructure
(Malekzadeh et al., 2017)	2017	Deep Learning	Deep Neural Networks (DNNs)	Aircraft Fuselage: Aircraft Fuselage Defect Detection
(Manzoor & Computing, 2017)	2017	Supervised	Support Vector Machine (SVM)	Automotive Vehicles (Cars): Vehicle Make and Model Classification
(Patil et al., 2017)	2017	Deep Learning	Deep Neural Networks (DNNs)	Automotive Vehicles (Cars): Car Damage Classification
(Jenssen & &, 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Power Lines: Automatic Autonomous Vision-Based Power Line Inspection
(Seo et al., 2018)	2018	Deep Learning	Deep Neural Networks (DNNs)	Bridges: Drone-Enabled Bridge Inspection
(Pachón-Suescún & ..., 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Automotive Vehicles (Cars): Scratch Detection in Cars
(Shaik et al., 2018)	2018	Reinforcement Learning	Q-Learning	Adaptive Control in Robotic Systems
(Bastian et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs) Deep Neural Networks (DNNs)	Pipelines: Extract Features from Pipeline Images
(Bastian et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Wind Turbines: Wind Turbine Surface Damage Detection
(Miranda et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Aircraft Fuselage: Classification on Aircraft Fuselage Images Acquired by a UAV
(Jalil et al., 2019)	2019	Deep Learning	Deep Neural Networks (DNNs)	Power Lines: Fault Detection in Power Equipment
(Titov et al., 2019)	2019	Deep Learning	Deep Neural Networks (DNNs)	Power Lines: Power Line Defect Detection Based on Data collected by the Cablewalker Drone
(Rakshata, 2019)	2019	Deep Learning	Deep Neural Networks (DNNs)	Automotive Vehicles (Cars): Car Damage Detection
(Tsurumine et al., 2019)	2019	Reinforcement Learning	Deep Reinforcement Learning	Robotic Cloth Manipulation
(W. J. Lee et al., 2019)	2019	Deep Learning	Artificial Neural Network (ANN)	AI & ML: Predictive Maintenance: Maintenance of Machine Tool Systems
(Alharam et al., 2020)	2020	Supervised Deep Learning	Support Vector Machine (SVM) Convolutional Neural Networks (CNNs)	Pipeline Inspection using Drone for Oil and Gas Industries

Source	Year	ML Method	ML Algorithm	Application of ML
(Franko et al., 2020)	2020	Deep Learning	Convolutional Neural Networks (CNNs)	Wind Turbines: Design of a Multi-Robot System for Wind Turbine Maintenance
(Q. Zhang et al., 2020)	2020	Deep Learning	Deep Neural Networks (DNNs)	Automotive Vehicles (Cars): Vehicle-Damage-Detection Segmentation
(Shimizu et al., 2020)	2020	Deep Learning	Deep Neural Networks (DNNs)	Autonomous Materials Synthesis
(Brandoli et al., 2021)	2021	Deep Learning	Convolutional Neural Networks (CNNs)	Aircraft Fuselage: Detect corrosion Pillowing in Images taken from an Aircraft Fuselage
(Bandi et al., 2021)	2021	Deep Learning	Convolutional Neural Networks (CNNs)	Automotive Vehicles (Cars): Assessing Car Damage
(Soori et al., 2023)	2023	Deep Learning	Deep Neural Networks (DNNs)	AI & ML: Cutting Forces and Cutting Tool Wear Prediction in CNC Machine Tools
(Waqar et al., 2024)	2024	Supervised Deep Learning	Support Vector Machine (SVM) Convolutional Neural Networks (CNNs) Deep Neural Networks (DNNs)	Autonomous Robotics in Real Time Operations

Table A-6: Application of ML in the Healthcare Domain

Source	Year	ML Method	ML Algorithm	Application of ML
(Kose et al., 2015)	2015	Supervised Unsupervised Deep Learning	Multiple Linear Regression (MLR) Self-Organizing Map (SOM) Convolutional Neural Networks (CNNs)	Healthcare Fraud and Abuse Detection
(Circulation & 2015, 2015)	2015	Supervised	Decision Tree (DT)	Medicine Precision
(M. Chen et al., 2017)	2017	Supervised Deep Learning	K Nearest Neighbors (K-NN) Decision Tree (DT) Naive Bayes Classifier (NBC) Convolutional Neural Networks (CNNs)	Risk Prediction
(Sarwar et al., 2018)	2018	Supervised	Support Vector Machine (SVM) Logistic Regression (LR) Naive Bayes Classifier (NBC) Decision Tree (DT) Random Forest (RF) K Nearest Neighbors (K-NN)	Disease Prediction: Diabetes Diagnosis
(Mir & on, 2018)	2018	Supervised	Naive Bayes Classifier (NBC) Support Vector Machine (SVM) Random Forest (RF) Classification and Regression Tree (CART)	Disease Prediction Anomaly Detection Decision Support
(Jadhav et al., 2019)	2019	Supervised	K Nearest Neighbors (K-NN) Support Vector Machine (SVM) Naive Bayes Classifier (NBC)	Disease Prediction
(Esteva et al., 2019)	2019	Supervised Deep Learning	Natural Learning Processing (NLP) Recurrent Neural Networks (RNNs) Convolutional Neural Networks (CNNs)	End-to-End System for Medicine Effects Evaluation

Source	Year	ML Method	ML Algorithm	Application of ML
(Yuvaraj & SriPreethaa, 2019)	2019	Supervised Deep Learning	Support Vector Machine (SVM) Decision Tree (DT) Naive Bayes Classifier (NBC) Random Forest (RF) Artificial Neural Network (ANN)	Disease Prediction
(J. Li, Haq, et al., 2020)	2020	Supervised Deep Learning	K Nearest Neighbors (K-NN) Support Vector Machine (SVM) Decision Tree (DT) Logistic Regression (LR) Naive Bayes Classifier (NBC) Artificial Neural Network (ANN)	Disease Prediction
(Ahmed et al., 2020)	2020	Supervised	K Nearest Neighbors (K-NN) Support Vector Machine (SVM) Decision Tree (DT) Logistic Regression (LR) Naive Bayes Classifier (NBC)	Medicine Delivery Precision for Population-Based Medicine
(Butt et al., 2021)	2021	Supervised Deep Learning	Random Forest (RF) Logistic Regression (LR) Multiple Linear Regression (MLR) K Nearest Neighbors (K-NN) Naive Bayes Classifier (NBC) Artificial Neural Network (ANN)	Disease Prediction: Diabetes Diagnosis
(A Alanazi, 2022)	2022	Supervised	Multiple Linear Regression (MLR) LASSO Regression K Nearest Neighbors (K-NN) Support Vector Machine (SVM) Decision Tree (DT) Logistic Regression (LR) Naive Bayes Classifier (NBC)	Disease Prediction Anomaly Detection Decision Support
(A. Zhang et al., 2022)	2022	Supervised	Natural Learning Processing (NLP)	Disease Prediction
(Kazazi et al., 2022)	2022	Supervised Unsupervised	K Nearest Neighbors (K-NN) K-Means Clustering (KMC)	Analyzes Spatial Accessibility to Healthcare Services (Hospitals, Pharmacies, Clinics, and Labs)
(Qayyum et al., 2022)	2022	Deep Learning	Convolutional Neural Networks (CNNs)	Privacy-Preserving COVID-19 Diagnosis
(An et al., 2023)	2023	Supervised Unsupervised	Multiple Linear Regression (MLR) Support Vector Regression (SVR) K Nearest Neighbors (K-NN) Support Vector Machine (SVM) Decision Tree (DT) Logistic Regression (LR) Naive Bayes Classifier (NBC) K-Means Clustering (KMC) Hierarchical Clustering (HC) Gaussian Mixture Model (GMM)	Disease Diagnosis
(Dubey et al., 2023)	2023	Supervised	Logistic Regression (LR) Random Forest (RF) K Nearest Neighbors (K-NN)	Disease Prediction: Breast Cancer Diagnosis
(Roy et al., 2023)	2023	Supervised	LASSO Regression Random Forest (RF) Logistic Regression (LR) Gradient Boosting Machine (GBM)	Medicine Precision
(Adhikary, 2023)	2023	Supervised	Random Forest (RF) Logistic Regression (LR) Decision Tree (DT)	Disease Prediction Medicine Precision Medical Error Reduction

Source	Year	ML Method	ML Algorithm	Application of ML
(Mager et al., 2024)	2024	Supervised Deep Learning	Random Forest (RF) Decision Tree (DT) Convolutional Neural Networks (CNNs)	Disease Prediction Medicine Precision Medical Error Reduction
(Sadr et al., 2024)	2024	Supervised Deep Learning	K Nearest Neighbors (K-NN) Naive Bayes Classifier (NBC) Multiple Linear Regression (MLR) Logistic Regression (LR) Support Vector Machine (SVM) Decision Tree (DT) Random Forest (RF) Convolutional Neural Networks (CNNs)	Disease Prediction Medicine Precision

Table A-7: Application of ML in the Environmental & Sustainability Domain

Source	Year	ML Method	ML Algorithm	Application of ML
(Osaku et al., 2015)	2015	Supervised	Support Vector Machine (SVM)	Improving Land Cover Classification through Contextual-Based Optimum-Path Forest
(Geiß et al., 2015)	2015	Supervised	Support Vector Machine (SVM) Random Forest (RF)	Estimation of Seismic Building Structural Types using Multisensor Remote Sensing
(Bavaghar, 2015)	2015	Supervised	Logistic Regression (LR)	Estimate the Location and Extent of Deforestation
(Hyandye et al., 2014)	2015	Supervised	Logistic Regression (LR)	Determine the Land Use/Land Cover Class
(Al-Obeidat et al., 2015)	2015	Supervised	Decision Tree	Processing Satellite Images and Landsat Data
(Miozzo et al., 2015)	2015	Reinforcement Learning	Q-Learning	Energy Harvesting Heterogeneous Networks
(Karalas et al., 2016)	2016	Supervised	K Nearest Neighbors (K-NN)	Land Classification Using Remotely Sensed Data
(Q. Wang et al., 2016)	2016	Supervised	Random Forest (RF)	Identification and Apportionment of Drivers of Land Use Change on a Regional Scale
(Wieland & Pittore, 2016)	2016	Supervised	Support Vector Machine (SVM)	Large-area Settlement Pattern Recognition
(Dornaika et al., 2016)	2016	Supervised	Support Vector Machine (SVM)	Building Detection from Orthophotos
(Soilán et al., 2016)	2016	Supervised	Support Vector Machine (SVM)	Traffic Sign Detection in MLS acquired Point Clouds for Geometric and Image-based Semantic Inventory
(M. Schmidt et al., 2016)	2016	Supervised	Random Forest (RF)	Mapping of Past and Present Cropping Activity
(S. Jin et al., 2016)	2016	Supervised Deep Learning	Support Vector Machine (SVM) Decision Tree (DT) Artificial Neural Network (ANN)	Efficient Board-Level Functional Fault Diagnosis with Missing Syndromes
(Keliris et al., 2016)	2016	Supervised	Support Vector Machine (SVM)	Machine learning-based defense against process-Aware attacks on Industrial Control Systems

Source	Year	ML Method	ML Algorithm	Application of ML
(Sheikhi et al., 2016)	2016	Reinforcement Learning	Q-Learning	Dynamic Load Management for a Residential Customer
(H. Chen et al., 2016)	2016	Reinforcement Learning	Q-Learning	A Reinforcement Learning-Based Sleep Scheduling algorithm for Desired Area Coverage in Solar-Powered Wireless Sensor Networks
(C. Deng et al., 2017)	2017	Supervised	Random Forest (RF)	Subpixel Urban Impervious Surface Mapping
(Shafizadeh-Moghadam et al., 2017)	2017	Supervised Deep Learning	Random Forest (RF) Support Vector Machine (SVM) Artificial Neural Network (ANN)	Coupling machine learning, tree-based and statistical models with cellular automata to simulate urban growth
(Frank et al., 2017)	2017	Supervised	Random Forest (RF)	Effect of Label noise on Machine-learned Classification of Earthquake Damage
(L. B. L. Santos et al., 2017)	2017	Supervised	K Nearest Neighbors (K-NN)	An RS-GIS-Based Comprehensive Impact Assessment of Floods
(Kamarudin et al., 2017)	2017	Unsupervised	Hierarchical Clustering	Stream Classification System on Tropical Areas
(Liao et al., 2017)	2017	Supervised	Linear Regression	Evaluating Impact of Energy Consumption on the Surface Urban Heat Island
(O'Donovan et al., 2018a)	2017	Deep Learning	Deep Neural Networks (DNNs)	Cloud/Fog/Edge Architectures: Improvement of D2C and D2D Communication and Resource Management Optimization
(Mayfield et al., 2017)	2017	Supervised	Random Forest (RF)	Cloud/Fog/Edge Architectures: Latency Reduction, Reliability Improvement and Scalability Provisioning
(Szuster et al., 2011)	2017	Supervised	Random Forest (RF)	Predictive Maintenance: Tool Wear Prediction
(Busogi & Kim, 2017)	2017	Supervised	Linear Regression Boosted Regression Trees Support Vector Machine (SVM)	Human–Machine Interaction: Prediction of Cycle Time with Respect to Task Complexity
(Heilig et al., 2017)	2017	Deep Learning	Deep Neural Networks (DNNs)	Decision Support System for Improved Resource Planning and Truck Routing at Logistic Nodes
(Heilig et al., 2017)	2017	Unsupervised	K-Means Clustering	Multi-objective inter-terminal truck routing
(Miozzo et al., 2017)	2017	Reinforcement Learning	Q-Learning	Switch-on/off policies for energy harvesting small cells through distributed Q-learning.
(Hino et al., 2018)	2018	Supervised	Linear Regression	Environmental Monitoring: Predict the Likelihood of a Facility Failing a Water Pollution

Source	Year	ML Method	ML Algorithm	Application of ML
(C. Zhang et al., 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	A hybrid MLP-CNN classifier for very fine resolution remotely sensed image classification
(Yoo et al., 2018)	2018	Supervised	Random Forest (RF)	Estimation of Daily Maximum and Minimum Air Temperatures in Urban landscapes using MODIS Time Series Satellite Data
(Schilling et al., 2018)	2018	Supervised Deep Learning	Random Forest (RF) Convolutional Neural Networks (CNNs)	Object-Based Detection of Vehicles using Combined Optical and Elevation Data
(Z. Zhang et al., 2018)	2018	Supervised	Random Forest (RF)	Road Centerline Extraction from Very-High-Resolution Aerial Images and LiDAR data based on Road Connectivity
(dos Reis et al., 2018)	2018	Supervised	Random Forest (RF)	Spatial Prediction of Basal Area and Volume in Eucalyptus Stands
(Kong et al., 2018)	2018	Deep Learning	Artificial Neural Network (ANN)	Long Short-Term Memory for Online Disturbance Detection in Satellite Image Time Series
(Gamboa, 2017)	2018	Deep Learning	Artificial Neural Network (ANN)	Prediction of Vegetation Dynamics
(O'Donovan et al., 2018b)	2018	Supervised	Support Vector Machine (SVM)	A fog computing industrial cyber-physical system for embedded low-latency machine learning Industry 4.0 applications
(L. Li et al., 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Deep Learning for Smart Industry: Efficient Manufacture Inspection System With Fog Computing
(L. Li et al., 2018)	2018	Supervised	Support Vector Machine (SVM)	Fault Detection: Imbalanced Data
(Shin et al., 2018)	2018	Supervised	Support Vector Machine (SVM)	SVM-Based Dynamic Reconfiguration CPS for Manufacturing System in Industry 4.0
(Peres et al., 2018a)	2018	Unsupervised	K-Means Clustering	IDARTS – Towards intelligent data analysis and real-time supervision for Industry 4.0
(Tuor et al., 2017)	2018	Deep Learning	Deep Neural Networks (DNNs)	Security and Threat Detection: Detection of Anomalies in Multi-Variety Production Systems A study on smart factory-based ambient intelligence context-aware intrusion detection system using machine learning

Source	Year	ML Method	ML Algorithm	Application of ML
(Doltsinis et al., 2018)	2018	Reinforcement Learning	Q-Learning	Human–Machine Interaction: Reduction of required Iterations and datasets A Symbiotic Human–Machine Learning Approach for Production Ramp-up
(Zheng et al., 2018)	2018	Deep Learning	Convolutional Neural Networks (CNNs)	Human–Machine Interaction: Classification and Analysis of Daily Human Activities Comparison of Data Preprocessing Approaches for Applying Deep Learning to Human Activity Recognition in the Context of Industry 4.0
(Alasali et al., 2018)	2018	Deep Learning Supervised	Deep Neural Networks (DNNs) Support Vector Machine (SVM)	Day-ahead Industrial Load Forecasting for Electric RTG Cranes
(Z. Wang et al., 2018)	2018	Deep Learning	Deep Neural Networks (DNNs)	Research on anti-swaying of crane based on T-S type adaptive neural fuzzy control
(Son et al., 2018)	2018	Supervised	LASSO Regression	Land use regression models to assess air pollution exposure in Mexico City using finer spatial and temporal input parameters
(F. Huang et al., 2019)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Automatic Extraction of Impervious Surfaces from High Resolution Remote Sensing Images
(Duncan et al., 2019)	2019	Supervised	Random Forest (RF)	Enhanced Understanding of Relationship between Urban Vegetation and Surface Temperature at the City Scale
(B. Peng et al., 2021)	2019	Deep Learning	Convolutional Neural Networks (CNNs)	Urban Flood Extent Mapping using Bitemporal Satellite Multispectral Imagery
(Liuzzi et al., 2019)	2019	Supervised	Random Forest (RF) K Nearest Neighbors (K-NN)	Classify Building Structural Types for Seismic Risk Analyses A transferable remote sensing approach to classify building structural types for seismic risk analyses: the case of Val d’Agri area (Italy)
(Bogawski et al., 2019)	2019	Supervised	Random Forest (RF) Support Vector Machine (SVM)	Predicting the onset of Betula Pendula Flowering
(T. Ye et al., 2019)	2019	Supervised	Random Forest (RF)	Improved Population Mapping for using Remotely Sensed and Points-of-Interest Data
(Peres et al., 2018b)	2019	Deep Learning	Deep Neural Networks (DNNs)	Predictive Maintenance: Heterogeneous Feature Extraction from Massive Signals

Source	Year	ML Method	ML Algorithm	Application of ML
(Peres et al., 2018b)	2019	Deep Learning	Deep Neural Networks (DNNs)	Predictive Maintenance: Tool Wear Identification in Ultra-Precision Manufacturing without Experts' Knowledge
(Peres et al., 2018b)	2019	Supervised	K Nearest Neighbors (K-NN)	Security and Threat Detection: Detection of Cyber-Physical Attacks in 3-D Printing Processes
(G. Song et al., 2019)	2019	Unsupervised	K-Means Clustering	Container Terminal Logistics Generalized Computing Architecture and Green Initiative Computational Pattern Performance Evaluation
(Zhan & Liu, 2019)	2019	Unsupervised	Principal Component Analysis (PCA)	Weighted RPCA based Background Subtraction for Automatic Berthing
(Yuchi et al., 2019)	2019	Supervised	Linear Regression Random Forest (RF)	Predicting Indoor Fine Particulate Matter Concentrations in a Highly Polluted City
(A. Khan & Sudheer, 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Monitoring and Modelling for Spatio-Temporal Urban Growth
(Kwak et al., 2020)	2020	Supervised	K Nearest Neighbors (K-NN)	Discerning Success of Sustainable Planning: Analysis of Urban Heat island Dynamics
(W. Chen et al., 2020)	2020	Supervised	Random Forest (RF)	Estimating PM 2.5 with High Resolution 1-km AOD Data
(Geiß et al., 2020)	2020	Supervised Deep Learning	Random Forest (RF) Support Vector Machine (SVM) Artificial Neural Network (ANN)	Mapping of Builtup Density and Height with Sentinel-2 Data
(X. Han et al., 2020)	2020	Deep Learning	Convolutional Neural Networks (CNNs)	Precise Object Detection using Adversarially Augmented Local/ Global Feature Fusion
(Sanya & Mwebaze, 2020)	2020	Deep Learning	Convolutional Neural Networks (CNNs)	Identifying Patterns in Urban Housing Density in Developing Countries using convolutional networks and satellite imagery
(Schlosser et al., 2020)	2020	Supervised	Random Forest (RF) Support Vector Machine (SVM) K Nearest Neighbors (K-NN)	Building Extraction using Orthophotos and Dense Point Cloud Derived from Visual band Aerial Imagery
(Holly et al., 2020)	2020	Deep Learning	Deep Neural Networks (DNNs)	Flexibility Management and Provision of Balancing Services
(Agamy et al., 2020)	2020	Deep Learning	Deep Neural Networks (DNNs)	Neural Fuzzy Control of the Indoor Air Quality Onboard a RO-RO Ship Garage
(Y. Peng et al., 2020)	2020	Deep Learning Supervised	Deep Neural Networks (DNNs) Random Forest (RF) K Nearest Neighbors (K-NN)	Machine learning method for energy consumption prediction of ships in port considering green ports

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(Cammin et al., 2020)	2020	Supervised	Support Vector Machine (SVM)	Reduce Air Emissions in Maritime Ports
(Quintano et al., 2021)	2020	Unsupervised	Hierarchical Clustering	Evaluation of the eco-efficiency of territorial districts with seaport economic activities
(Caballini et al., 2020)	2020	Unsupervised	Hierarchical Clustering	A combined data mining – optimization approach to manage trucks operations in container terminals with the use of a TAS: Application to an Italian and a Mexican port
(Kuo & Lin, 2020)	2020	Unsupervised	Principal Component Analysis (PCA)	Determining Green Performance in Container Terminal Operations
(Zhao et al., 2020)	2020	Unsupervised	Principal Component Analysis (PCA)	Characterizing the Variation of Particles in Varied Sizes from a Container Truck in a Port Area
(Skardi et al., 2020)	2020	Reinforcement Learning	Q-Learning	Water and Treated Wastewater Allocation in Urban Areas
(Shaw et al., 2022)	2020	Reinforcement Learning	Q-Learning	Applying Reinforcement Learning towards automating energy efficient virtual machine consolidation in cloud data centers
(Cole et al., 2020)	2020	Supervised	Random Forest (RF)	Impact of the Wuhan COVID-19 Lockdown on Air Pollution and Health
(Shahriar et al., 2020)	2020	Supervised	Support Vector Machine (SVM) Random Forest (RF)	Applicability of machine learning in modeling of atmospheric particle pollution in Bangladesh
(Bozdağ et al., 2020)	2020	Supervised Deep Learning	LASSO Regression Random Forest (RF) K Nearest Neighbors (K-NN) Artificial Neural Network (ANN)	Spatial prediction of PM10 concentration using machine learning algorithms in Ankara, Turkey
(Magazzino et al., 2020)	2020	Deep Learning	Artificial Neural Network (ANN)	Relationship between Air Pollution and COVID-19-Related Deaths
(Cazzolla Gatti et al., 2020)	2020	Supervised	Random Forest (RF)	Relationship between Air Pollution and SARS-CoV-2 Mortality and Infectivity
(Shams et al., 2020)	2020	Supervised Deep Learning	Linear Regression Artificial Neural Network (ANN)	Air Carbon Monoxide Forecasting
(Araujo et al., 2020)	2020	Supervised	Linear Regression	Estimate Air Pollution Health Risks
(B. Chen et al., 2021)	2021	Supervised	Random Forest (RF) Artificial Neural Network (ANN)	Mapping essential urban land use categories with open big data: Results for five metropolitan areas in the United States of America
(Garg et al., 2021)	2021	Supervised	Random Forest (RF) K Nearest Neighbors (K-NN) Support Vector Machine (SVM)	Semantic Segmentation of PolSAR Image data using advanced deep learning model

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(Jaad & Abdelghany, 2021)	2021	Deep Learning	Convolutional Neural Networks (CNNs)	The story of five MENA cities: Urban growth prediction modeling using remote sensing and video analytics
(Das et al., 2022)	2021	Supervised	Support Vector Machine (SVM)	Spatio-Temporal Pattern of Land Use and Land Cover and its effects on Land Surface Temperature using Remote Sensing and GIS
(M. Guo et al., 2021)	2021	Supervised	Random Forest (RF)	Dual Effects of Synoptic Weather Patterns and Urbanization on Summer Diurnal Temperature Range in an Urban Agglomeration
(C. C. Chen et al., 2021)	2021	Supervised	Random Forest (RF)	Environmental Pollution Estimation
(H. Guo et al., 2021)	2021	Supervised Deep Learning	Random Forest (RF) Support Vector Machine (SVM) Artificial Neural Network (ANN)	A machine learning-based strategy for estimating non-optically active water quality parameters using Sentinel-2 imagery
(Sarigai et al., 2021)	2021	Supervised	LASSO Regression	Monitoring Urban Black Odorous Water by using Hyperspectral Data
(Shi et al., 2021)	2021	Supervised	Random Forest (RF)	Digital Mapping of Zinc in Urban Topsoil using Multisource Geospatial Data
(Shogrkhodaei et al., 2021)	2021	Supervised	Random Forest (RF)	Spatio-Temporal Modelling of PM2.5 Risk Mapping
(Tella et al., 2021a)	2021	Supervised	Random Forest (RF) K Nearest Neighbors (K-NN) Naive Bayes Classifier (NBC)	Spatial Assessment of PM10 Hotspots
(Aissou et al., 2021)	2021	Supervised	Support Vector Machine (SVM)	Building Roof Superstructures Classification
(Frantz et al., 2021)	2021	Supervised	Random Forest (RF) Support Vector Machine (SVM)	National-Scale Mapping of Building Height using Sentinel-1 and Sentinel-2 Time Series
(Imam et al., 2021)	2021	Deep Learning	Convolutional Neural Networks (CNNs)	Detecting Building Fences from High-Resolution Images
(Correa Martins et al., 2021a)	2021	Deep Learning	Convolutional Neural Networks (CNNs)	SLIC for Tree Canopies Segmentation in Urban Areas
(Hartling et al., 2021)	2021	Supervised	Random Forest (RF) Support Vector Machine (SVM)	Urban Tree Species Classification
(Hay Chung et al., 2021)	2021	Supervised	Random Forest (RF) Support Vector Machine (SVM)	Mapping of Local Climate Zones in Metropolitan Areas
(Mahdianpari et al., 2021)	2021	Supervised	Random Forest (RF)	Urban Wetland Mapping using Very-High Resolution Satellite Imagery
(Correa Martins et al., 2021b)	2021	Deep Learning	Convolutional Neural Networks (CNNs)	Mapping in a Highly Diverse Tropical Urban Setting
(Sapena et al., 2021)	2021	Supervised	Random Forest (RF)	Estimating Quality of Life Dimensions from Urban Spatial Pattern Metrics

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(Vulova et al., 2021)	2021	Supervised Deep Learning	Random Forest (RF) Convolutional Neural Networks (CNNs)	Modelling Urban Evapotranspiration
	2021	Deep Learning	Deep Neural Networks (DNNs)	Improve Air Quality Predictions Around Busan Port
(S. Wen et al., 2021)	2021	Deep Learning	Deep Neural Networks (DNNs)	Coordinated Optimal Energy Management and Voyage Scheduling for All-Electric Ships
(C. Wang et al., 2021)	2021	Unsupervised	Hierarchical Clustering Principal Component Analysis (PCA)	Sustainable Port Development
(Al-Jawad et al., 2021)	2021	Reinforcement Learning	Q-Learning	Dynamic Routing Algorithm Selection Method for SDN
(Sacco et al., 2021)	2021	Reinforcement Learning	Q-Learning	Sustainable Task Offloading in UAV Networks
(Magazzino et al., 2021)	2021	Supervised	Decision Tree	The Nexus between COVID-19 Deaths, Air Pollution, and Economic Growth
(Mokhtari et al., 2021)	2021	Deep Learning	Convolutional Neural Networks (CNNs)	Highly Dynamic Air Quality Prediction
(De Mattos Neto et al., 2021)	2021	Deep Learning	Artificial Neural Network (ANN)	Particulate Matter Forecasting
(Cihan et al., 2021)	2021	Supervised	Random Forest (RF) K Nearest Neighbors (K-NN)	Particulate Matter Forecasting
(Taheri & Razban, 2021)	2021	Supervised	Support Vector Machine (SVM) Random Forest (RF) Logistic Regression	CO2 Concentration Prediction
(Khat et al., 2019)	2021	Deep Learning	Deep Neural Networks (DNNs)	Estimating Hourly PM2.5 Concentrations
(Ketu & Mishra, 2021)	2021	Supervised	Support Vector Machine (SVM)	Imbalance Air Quality data for Proficient Healthcare
(Tella et al., 2021b)	2021	Supervised	Naive Bayes Classifier (NBC) Random Forest (RF) K Nearest Neighbors (K-NN)	Spatial Assessment of PM10 Hotspots
(Singleton et al., 2022)	2022	Deep Learning	Convolutional Neural Networks (CNNs)	Estimating Generalized Measures of Local Neighborhood
(X. Xu et al., 2022)	2022	Deep Learning	Convolutional Neural Networks (CNNs) Deep Neural Networks (DNNs)	Urban Functional Area Classification
(Abunnasr & Mhaweij, 2022)	2022	Supervised	K Nearest Neighbors (K-NN) Naive Bayes Classifier (NBC) Random Forest (RF)	Assessment Analysis of Flood Susceptibility in Tropical Desert Area
(Al-Aizari et al., 2022)	2022	Supervised	Random Forest (RF) Support Vector Machine (SVM)	Combined Landsat-8 and Sentinel-2 for 10-m Land Surface Temperature Products
(S. Chen et al., 2022)	2022	Supervised Deep Learning	Random Forest (RF) Deep Neural Networks (DNNs)	High-Resolution Monitoring Approach of Canopy Urban Heat Island Deep Urban Downscale: High-Resolution Urban Surface Temperature
(Jato-Espino et al., 2022)	2022	Supervised	Linear Regression Support Vector Machine (SVM) Random Forest (RF)	GIS add-in for Automated Modelling of the Urban Heat Island

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(Kafy et al., 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Predicting the Impacts of Land use/Land Cover Changes on Seasonal Urban Thermal Characteristics
(Mohammad et al., 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Prediction of Land use Land cover and Land Surface Temperature Changes
(Stewart & Kremer, 2022)	2022	Supervised	Random Forest (RF)	Temporal Change in Relationships between Urban Structure and Surface Temperature
(Y. Wang et al., 2022)	2022	Supervised Deep Learning	Support Vector Machine (SVM) Convolutional Neural Networks (CNNs)	Two-Stage Seismic Damage Assessment Method for Small, Dense, and Imbalanced Buildings in Remote Sensing Images
(Uniyal et al., 2022)	2022	Supervised	Support Vector Machine (SVM) Random Forest (RF) K Nearest Neighbors (K-NN)	Quantification of Carbon Sequestration by Urban Forest using Landsat 8 OLI
(T. Wang et al., 2022)	2022	Supervised	K Nearest Neighbors (K-NN)	UAV Remote Sensing based Estimation of Green Cover during Turfgrass Establishment
(Asha et al., 2022)	2022	Supervised	Linear Regression Random Forest (RF)	Deploying Solar Panels for Environmental Sustainability
(Giri & Majumder, 2022)	2022	Reinforcement Learning	Deep Q-Learning	Optimal Resource Allocation Method for Energy Harvested Cognitive Radio Networks
(Q. Xie et al., 2022)	2022	Deep Learning	Deep Neural Networks (DNNs)	Air Pollution Emission Estimation
(Muthukumar et al., 2022)	2022	Deep Learning	Convolutional Neural Networks (CNNs)	Predicting PM2.5 Atmospheric Air Pollution
(Abu El-Magd et al., 2023)	2022	Supervised	Random Forest	Environmental Hazard Assessment and Monitoring for Air Pollution
(C. Huang et al., 2022)	2022	Supervised	Logistic Regression (LR) Random Forest (RF) Support Vector Machine (SVM) K Nearest Neighbors (K-NN)	Effect of Urban Morphology on Air Pollution Distribution in High-Density Urban Blocks
	2022	Deep Learning	Convolutional Neural Networks (CNNs)	Air Quality Prediction
(Kumar & Pande, 2023)	2022	Supervised	Support Vector Machine (SVM)	Air Quality Prediction
(Sethi & Mittal, 2022)	2022	Supervised	Naive Bayes Classifier	Air Quality Prediction
(Abirami et al., 2022)	2022	Supervised	Decision Tree (DT) Random Forest (RF) Linear Regression	Air Quality Prediction
(Y. W. Chen et al., 2022)	2022	Deep Learning	Deep Neural Networks (DNNs)	Investigating Variable Importance in Ground-Level Ozone Formation
(Cho & Moon, 2022)	2022	Deep Learning	Artificial Neural Network (ANN)	Air Quality Prediction in a School Building
(Yadav B & Geetha, 2022)	2022	Deep Learning	Recurrent Neural Networks (RNNs)	Prediction of Concentration of Air Pollution

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(C. C. Liu et al., 2022)	2022	Supervised	Support Vector Machine (SVM)	Spatio-Temporal Prediction and Factor Identification of Urban Air Quality
(Martín-Baos et al., 2022)	2022	Supervised	Random Forest (RF) Logistic Regression	Spatio-Temporal Prediction and Factor Identification of Urban Air Quality Prediction of Concentration of Air Pollution
(Choudhury et al., 2022)	2022	Supervised Deep Learning	Random Forest (RF) Convolutional Neural Networks (CNNs)	Prediction of Air Pollution Level
(K et al., 2022)	2022	Supervised	Logistic Regression	Air Contamination Prediction
(Ajao & Apeh, 2023)	2023	Reinforcement Learning	Q-Learning	Secure Edge Computing Vulnerabilities in Smart Cities Sustainability
(Emamjomehzadeh et al., 2023)	2023	Reinforcement Learning	Q-Learning	Sustainable Water Resources Management
(Y. Gao et al., 2023)	2023	Reinforcement Learning	Q-Learning	Optimizing Operation Energy Consumption at Automated Container Terminals
(Ravindra et al., 2023)	2023	Supervised	Random Forest (RF)	Predict the Impact of Ambient Air Pollution on Outpatient Visits for Acute Respiratory Infections
(Van et al., 2023)	2023	Supervised	Random Forest (RF) Decision Tree (DT)	Air Quality Prediction
(Eren et al., 2023)	2023	Deep Learning	Recurrent Neural Networks (RNNs)	Predicting Next Hour Fine Particulate Matter (PM2.5)
(Persis & Ben Amar, 2023)	2023	Supervised	Support Vector Machine (SVM) Random Forest (RF) Decision Tree (DT)	Air Quality Prediction
(Koo et al., 2023)	2023	Deep Learning	Convolutional Neural Networks (CNNs) Recurrent Neural Networks (RNNs) Deep Neural Networks (DNNs)	Development of PM2.5 Forecasting System
(Suriya et al., 2023)	2023	Deep Learning	Convolutional Neural Networks (CNNs)	Prediction of PM2.5 Concentration
(Falah et al., 2023)	2023	Supervised	Random Forest (RF)	Prediction of PM2.5 Concentration
(Wakjira et al., 2024)	2024	Supervised	Linear Regression Decision Tree (DT) Boosted Regression Trees	Environmentally Sustainable Ultra-High-Performance Concrete (UHPC)

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