

## **SOFTWARE PROJECTS PYTHON - MACHINE LEARNING**

1. A Convex Model for Support Vector Distance Metric Learning.
2. A Deep Learning Approach to Detect Real-Time Vehicle Maneuvers Based on Smartphone Sensors.
3. A Novel Contract Theory-Based Incentive Mechanism for Cooperative Task-Offloading in Electrical Vehicular Networks.
4. A Self-play and Sentiment-Emphasized Comment Integration Framework Based on Deep Q-Learning in a Crowdsourcing Scenario.
5. Acting as a Decision Maker Traffic-Condition- Aware Ensemble Learning for Traffic Flow.
6. An Artificial-Neural-Network-Based Model for Real-Time Dispatching of Electric Autonomous Taxis.
7. An Intrusion Detection Method Based on Machine Learning and State Observer for Train-Ground.
8. Are We Hungry for 3D LiDAR Data for Semantic Segmentation A Survey of Datasets and Methods.
9. BARNet Boundary Aware Refinement Network for Crack Detection.
10. BNAS Efficient Neural Architecture Search Using Broad Scalable Architecture.
11. A Fused Method of Machine Learning and Dynamic Time Warping for Road Anomalies Detection.
12. A Novel System for Nighttime Vehicle Detection Based on Foveal Classifiers With Real-Time Performance.
13. Adversarial Reconstruction Based on Tighter Oriented Localization for Catenary Insulator Defect Detection in High-Speed Railways.
14. Analysis of Classifier Training on Synthetic Data for Cross-Domain Datasets.
15. Behavior2vector Embedding Users' Personalized Travel Behavior to Vector.
16. CoDriver ETA Combine Driver Information in Estimated Time of Arrival by Driving Style Learning Auxiliary Task.
17. Cross-Database Micro-Expression Recognition A Benchmark.
18. Data-Driven Fault Diagnosis for Traction Systems in High-Speed Trains A Survey, Challenges, and Perspectives.
19. Deep Learning for Road Traffic Forecasting Does It Make a Difference.
20. Deep Pain Exploiting Long Short-Term Memory Networks for Facial Expression Classification.
21. A Knowledge Distillation Ensemble Framework for Predicting Short and Long-term Hospitalization Outcomes from Electronic Health Records Data.
22. An Empirical Review of Deep Learning Frameworks for Change Detection Model Design.
23. Boosted Genetic Algorithm Using Machine Learning for Traffic Control Optimization.
24. Data Augmented Deep Behavioral Cloning for Urban Traffic Control Operations Under a Parallel Learning Framework.
25. Deep Learning-Based Vehicle Behavior Prediction for Autonomous Driving Applications.
26. Deep-Learning-Based Automatic Selection of Fewest Channels for Brain-Machine Interfaces.
27. Driver Identification and Verification From Smartphone Accelerometers Using Deep Neural Networks.
28. Driver State Monitoring Manipulating Reliability Expectations in Simulated Automated Driving Scenarios.
29. Evolving Connections in Group of Neurons for Robust Learning.
30. Geographical Information Enhanced Recognition of Traffic Modes and Behavior Patterns.
31. A Survey on Resource Allocation in Vehicular Networks.
32. Coherence Constrained Graph LSTM for Group Activity Recognition.
33. Deep Reinforcement Learning for Intelligent Transportation Systems A Survey.
34. Driver Identification Through Formal Methods.
35. Fully Decomposed Singular Value and Fixed Dictionary Extreme Learning Machine for Bogie Fault Diagnosis.
36. HarMI Human Activity Recognition via Multi-Modality Incremental Learning.
37. Hyperspectral Image Classification via Discriminant Gabor Ensemble Filter.

38. Introspective Failure Prediction for Autonomous Driving Using Late Fusion of State and Camera Information.
39. Light-Field Imaging Reconstruction Using Deep Learning Enabling Intelligent Autonomous Transportation System.
40. MM-UrbanFAC Urban Functional Area Classification Model Based on Multimodal Machine Learning.
41. Automated Software Defect Detection and Identification in Vehicular Embedded Systems.
42. Detection of Stop Sign Violations From Dashcam Data.
43. Global-Local Temporal Convolutional Network for Traffic Flow Prediction.
44. Image Hallucination From Attribute Pairs.
45. Mental States, EEG Manifestations, and Mentally Emulated Digital Circuits for Brain-Robot Interaction.
46. On Model Selection for Scalable Time Series Forecasting in Transport Networks.
47. Pedestrian Crossing Intention Prediction at Red-Light Using Pose Estimation.
48. Relational Fusion Networks Graph Convolutional Networks for Road Networks.
49. Safety-Guaranteed and Development Cost- Minimized Scheduling of DAG Functionality.
50. Semisupervised Consistent Projection Metric Learning for Person Reidentification.
51. Robust Data-Driven Framework for Driver Behavior Profiling Using Supervised Machine Learning.
52. Multi-level Attention Network for Retinal Vessel Segmentation.
53. Personalized Blood Pressure Estimation Using Photoplethysmography A Transfer Learning Approach.
54. Security Vulnerabilities and Protection Algorithms for Backpressure- Based Traffic Signal Control.
55. Short-Term Demand Forecasting for on-Demand Mobility Service.
56. Short-Term Traffic Flow Forecasting Using Ensemble Approach Based on Deep Belief Networks.
57. Stroke Risk Prediction with Hybrid Deep Transfer Learning Framework.
58. Symmetric All Convolutional Neural-Network-Based Unsupervised Feature Extraction for Hyperspectral Images Classification.
59. Toward Road Safety Recommender Systems Formal Concepts and Technical Basics.
60. Hierarchical Granular Computing-Based Model and Its Reinforcement Structural Learning for.
61. Dynamic Pricing for Differentiated PEV Charging Services Using Deep Reinforcement Learning.
62. Optimizing Locations and Qualities of Multiple Facilities With Competition via Intelligent Search.
63. Sensors and AI Techniques for Situational Awareness in Autonomous Ships A Review.
64. Small Data Challenges in Big Data Era A Survey of Recent Progress on Unsupervised and Semi-Supervised Methods.
65. Tire Force Estimation in Intelligent Tires Using Machine Learning.
66. Using Eye-Tracking Data to Predict Situation Awareness in Real Time During Takeover Transitions in Conditionally Automated Driving.
67. We Dea A New EEG-based Framework for Emotion Recognition.
68. Survey of Deep Reinforcement Learning for Motion Planning of Autonomous Vehicles.
69. Short-Term Traffic Flow Forecasting Method With M-B-LSTM Hybrid Network.
70. Learning to Predict Lidar Intensities.
71. Deep CNN, Body Pose and Body-Object Interaction Features for Drivers Activity Monitoring.

## **SOFTWARE PROJECTS PYTHON - DEEP LEARNING**

1. A Distributed Model-Free Algorithm for Multi-hop Ride-sharing using Deep Reinforcement Learning.
2. A Graph Convolutional Stacked Bidirectional Unidirectional-LSTM Neural Network for Metro Ridership Prediction.
3. A Graph-Based Temporal Attention Framework for Multi-Sensor Traffic Flow Forecasting.
4. A Multi-Scale Attributes Attention Model for Transport Mode Identification.
5. A multi-stream convolutional neural network for classification of progressive MCI in Alzheimer.
6. A Multi-Stream Feature Fusion Approach for Traffic Prediction.
7. A Self-Supervised Gait Encoding Approach with Locality-Awareness for 3D Skeleton Based Person Re-Identification.
8. A Time-Series Feature-Based Recursive Classification Model to Optimize Treatment Strategies for Improving Outcomes and Resource Allocations of COVID-19 Patients.
9. Acoustic Screening for Obstructive Sleep Apnea in Home Environments Based on Deep Neural.
10. AdaPool A Diurnal-Adaptive Fleet Management Framework using Model- Free Deep Reinforcement.
11. Adversarial Evaluation of Autonomous Vehicles in Lane-Change Scenarios.
12. An Empirical Review of Deep Learning Frameworks for Change Detection Model Design, Experimental Frameworks, Challenges and Research Needs.
13. An End-to-End Multi-Task Learning Model for Drivable Road Detection via Edge Refinement and Geometric Deformation.
14. An Iteratively Optimized Patch Label Inference Network for Automatic Pavement Distress Detection.
15. An Explainable Transformer-Based Deep Learning Model for the Prediction of Incident Heart Failure.
16. Analysis of Classifier Training on Synthetic Data for Cross-Domain Datasets.
17. Artificial Intelligence for Colonoscopy Past, Present, and Future.
18. Assessment of Parkinson's disease Severity from Videos using Deep Architectures.
19. Attention in Attention Networks for Person Retrieval.
20. Attention in Reasoning Dataset, Analysis, and Modeling.
21. Attention-Guided Discriminative Region Localization and Label Distribution Learning for Bone Age Assessment.
22. AutoAtlas Neural Network for 3D Unsupervised Partitioning and Representation Learning.
23. Automatic assessment of Pectus Excavatum severity from CT images using deep learning.
24. Automatic Detection of Aortic Valve Events Using Deep Neural Networks on Cardiac Signals From Epicardially Placed Accelerometer.
25. BARNet Boundary Aware Refinement Network for Crack Detection.
26. Biomedical Relation Extraction With Knowledge Graph-Based Recommendations.
27. CenterNet3D An Anchor Free Object Detector for Point Cloud.
28. Chen A Deep Unsupervised 2021 Accepted.
29. Confidence Estimation via Auxiliary Models.
30. Confidence-and-Refinement Adaptation Model for Cross-Domain Semantic Segmentation.
31. Continual Adaptation for Deep Stereo.
32. Counting People by Estimating People Flows.
33. Data pre-processing using Neural Processes for Modelling Personalised Vital-Sign Time-Series Data.
34. Deep CNN, Body Pose and Body-Object Interaction Features for Drivers Activity Monitoring.
35. Deep Hough Transform for Semantic Line Detection.
36. Deep Learning for Road Traffic Forecasting Does it Make a Difference.
37. Deep Learning in Lane Marking Detection A Survey.
38. Deep Learning-Based Vehicle Behavior Prediction for Autonomous Driving Applications A Review.

39. Deep Reinforcement Learning for Intelligent Transportation Systems A Survey.
40. Deep Reinforcement Learning for the Electric Vehicle Routing Problem with Time Windows.
41. Deep Clustering via Center-Oriented Margin Free-Triplet Loss for Skin Lesion Detection in Highly Imbalanced Datasets.
42. Deep Generative Modelling A Comparative Review of VAEs, GANs, Normalizing Flows, Energy-Based and Autoregressive Models.
43. DeepMTS Deep Multi-task Learning for Survival Prediction in Patients with Advanced Nasopharyngeal Carcinoma using Pretreatment PETCT.
44. DeepSPIO Super Paramagnetic Iron Oxide Particle Quantification using Deep Learning in Magnetic Resonance Imaging.
45. Detailed Avatar Recovery from Single Image
46. DFR-TSD A Deep Learning Based Framework for Robust Traffic Sign Detection Under Challenging Weather Conditions.
47. Distracted Driver Detection Based on a CNN With Decreasing Filter Size.
48. DPODv2 Dense Correspondence-Based 6 DoF Pose Estimation.
49. Driver Identification and Verification From Smartphone Accelerometers Using Deep Neural Networks.
50. Dynamic Neural Graphs Based Federated Reptile for Semi-supervised Multi-Tasking in Healthcare Applications.
51. Effective Training of Convolutional Neural Networks with Low-bitwidth Weights and Activations.
52. End-to-End Automatic Morphological Classification of Intracranial Pressure Pulse Waveforms Using Deep Learning.
53. Explainable Diabetic Retinopathy Detection and Retinal Image Generation.
54. Exploring Human Mobility for Multi-pattern Passenger Prediction A Graph Learning Framework.
55. Final Version-A Deep Learning Approach for Flight Delay Prediction through Time-Evolving Graphs.
56. From Handcrafted to Deep Features for Pedestrian Detection A Survey.
57. GraphSAGE-Based Traffic Speed Forecasting for Segment Network With Sparse Data.
58. HarMI Human Activity Recognition via Multi-Modality Incremental Learning.
59. Human Trajectory Forecasting in Crowds A Deep Learning Perspective.
60. Improving the In-Hospital Mortality Prediction of Diabetes ICU Patients Using a Process Mining/Deep Learning Architecture.
61. End-to-End Automatic Morphological Classification of Intracranial Pressure Pulse Waveforms Using Deep Learning.
62. Exploring Spatial Significance via Hybrid Pyramidal Graph Network for Vehicle Re-Identification.
63. GPCA A Probabilistic Framework for Gaussian Process Embedded Channel Attention.