REFERENCES

[1] W. H. Zeng, S. D. Zhu, Y. H. Luo, W. Shi, Y. Q. Wang, and K. F. Cao, "Aboveground biomass stocks of species-rich natural forests in southern China are influenced by stand structural attributes, species richness and precipitation," *Plant Divers*, vol. 46, no. 4, pp. 530–536, Jul. 2024, doi: 10.1016/j.pld.2024.04.012.

[2] A. Raihan, R. A. Begum, M. N. M. Said, and J. J. Pereira, "Assessment of carbon stock in forest biomass and emission reduction potential in Malaysia," *Forests*, vol. 12, no. 10, Oct. 2021, doi: 10.3390/f12101294.

[3] J. H. Lee, J. G. Lee, S. T. Jeong, H. S. Gwon, P. J. Kim, and G. W. Kim, "Straw recycling in rice paddy: Trade-off between greenhouse gas emission and soil carbon stock increase," *Soil Tillage Res*, vol. 199, p. 104598, May 2020, doi: 10.1016/J.STILL.2020.104598.

[4] A. A. Dar and N. Parthasarathy, "Patterns and drivers of tree carbon stocks in Kashmir Himalayan forests: implications for climate change mitigation," *Ecol Process*, vol. 11, no. 1, p. 58, 2022, doi: 10.1186/s13717-022-00402-z.

[5] D. D. T. L. Dayathilake, E. Lokupitiya, and V. P. I. S. Wijeratne, "Estimation of Soil Carbon Stocks of Urban Freshwater Wetlands in the Colombo Ramsar Wetland City and their Potential Role in Climate Change Mitigation," *Wetlands*, vol. 41, no. 2, Feb. 2021, doi: 10.1007/s13157-021-01424-7.

[6] D. Rajasugunasekar, Avdhesh Kumar Patel, Khumanthem Babina Devi, Akhilesh Singh, Panneer Selvam, and Anup Chandra, "An Integrative Review for the Role of Forests in Combating Climate Change and Promoting Sustainable Development," *International Journal of Environment and Climate Change*, vol. 13, no. 11, pp. 4331–4341, 2023.

[7] Z. Zhang, J. He, M. Huang, and W. Zhou, "Is Regulation Protection? Forest Logging Quota Impact on Forest Carbon Sinks in China," *Sustainability (Switzerland)*, vol. 15, no. 18, Sep. 2023, doi: 10.3390/su151813740.

[8] L. Nel *et al.*, "InVEST Soil Carbon Stock Modelling of Agricultural Landscapes as an Ecosystem Service Indicator," *Sustainability (Switzerland)*, vol. 14, no. 16, Aug. 2022, doi: 10.3390/su14169808.

[9] S. R. Byrapu Reddy, P. Kanagala, P. Ravichandran, D. R. Pulimamidi, P. V. Sivarambabu, and N. S. A. Polireddi, "Effective fraud detection in e-commerce: Leveraging machine learning and big data analytics," *Measurement: Sensors*, vol. 33, p. 101138, Jun. 2024, doi: 10.1016/J.MEASEN.2024.101138.

[10] S. Uniyal, S. Purohit, K. Chaurasia, S. S. Rao, and E. Amminedu, "Quantification of carbon sequestration by urban forest using Landsat 8 OLI and machine learning algorithms in Jodhpur, India," *Urban For Urban Green*, vol. 67, p. 127445, Jan. 2022, doi: 10.1016/J.UFUG.2021.127445.

[11] J. Lei *et al.*, "Prediction of soil organic carbon stock combining Sentinel-1 and Sentinel-2 images in the Zoige Plateau, the northeastern Qinghai-Tibet Plateau," *Ecol Process*, vol. 13, no. 1, Dec. 2024, doi: 10.1186/s13717-024-00515-7.

[12] M. Emadi, R. Taghizadeh-Mehrjardi, A. Cherati, M. Danesh, A. Mosavi, and T. Scholten, "Predicting and mapping of soil organic carbon using machine learning algorithms in Northern Iran," *Remote Sens (Basel)*, vol. 12, no. 14, Jul. 2020, doi: 10.3390/rs12142234.

[13] Z. Ashani, "Comparative Analysis of Deepfake Image Detection Method Using VGG16, VGG19 and ResNet50," *Journal of Advanced Research in Applied Sciences and Engineering Technology*, vol. 47, pp. 16–28, Dec. 2024, doi: 10.37934/araset.47.1.1628.

[14] S. Kumar and H. Kumar, "Classification of COVID-19 X-ray images using transfer learning with visual geometrical groups and novel sequential convolutional neural networks," *MethodsX*, vol. 11, p. 102295, Dec. 2023, doi: 10.1016/J.MEX.2023.102295.

[15] Y. Xia, S. Jiang, L. Meng, and X. Ju, "XGBoost-B-GHM: An Ensemble Model with Feature Selection and GHM Loss Function Optimization for Credit Scoring," *Systems*, vol. 12, p. 254, Dec. 2024, doi: 10.3390/systems12070254.

[16] E. Sahin, "Assessing the predictive capability of ensemble tree methods for landslide susceptibility mapping using XGBoost, gradient boosting machine, and random forest," *SN Appl Sci*, vol. 2, Dec. 2020, doi: 10.1007/s42452-020-3060-1.

[17] Y. Cai, J. Feng, Y. Wang, Y. Ding, Y. Hu, and H. Fang, "The Optuna–LightGBM–XGBoost Model: A Novel Approach for Estimating Carbon Emissions Based on the Electricity–Carbon Nexus," *Applied Sciences*, vol. 14, p. 4632, Dec. 2024, doi: 10.3390/app14114632.

[18] N. Pudjihartono, T. Fadason, A. Kempa-Liehr, and J. O'Sullivan, "A Review of Feature Selection Methods for Machine Learning-Based Disease Risk Prediction," *Frontiers in Bioinformatics*, vol. 2, p. 927312, Dec. 2022, doi: 10.3389/fbinf.2022.927312.

[19] P. V Agrawal and D. D. Kshirsagar, "Information Gain-based Feature Selection Method in Malware Detection for MalDroid2020," in *2022 International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN)*, 2022, pp. 1–5. doi: 10.1109/ICSTSN53084.2022.9761336.

[20] K. Qu, J. Xu, Q. Hou, K. Qu, and Y. Sun, "Feature selection using Information Gain and decision information in neighborhood decision system," *Appl Soft Comput*, vol. 136, p. 110100, Mar. 2023, doi: 10.1016/J.ASOC.2023.110100.

[21] H.-T. Wen, H.-Y. Wu, and K.-C. Liao, “Using XGBoost Regression to Analyze the Importance of Input Features Applied to an Artificial Intelligence Model for the Biomass Gasification System,” *Inventions*, vol. 7, p. 126, Dec. 2022, doi: 10.3390/inventions7040126.

[22] A. Velastegui-Montoya, N. Montalván-Burbano, P. Carrión-Mero, H. Rivera-Torres, L. Sadeck, and M. Adami, “Google Earth Engine: A Global Analysis and Future Trends,” Jul. 01, 2023, *Multidisciplinary Digital Publishing Institute (MDPI)*. doi: 10.3390/rs15143675.

[23] M. Amani *et al.*, “Google Earth Engine Cloud Computing Platform for Remote Sensing Big Data Applications: A Comprehensive Review,” *IEEE J Sel Top Appl Earth Obs Remote Sens*, vol. 13, pp. 5326–5350, 2020, doi: 10.1109/JSTARS.2020.3021052.

[24] C. Ning, H. Gan, M. Shen, and T. Zhang, “Learning-based padding: From connectivity on data borders to data padding,” *Eng Appl Artif Intell*, vol. 121, p. 106048, May 2023, doi: 10.1016/J.ENGAPPAI.2023.106048.

[25] C. Yu, P.-H. Hung, J.-H. Hong, and H.-Y. Chiang, “Efficient Max Pooling Architecture with Zero-Padding for Convolutional Neural Networks,” in *2023 IEEE 12th Global Conference on Consumer Electronics (GCCE)*, 2023, pp. 747–748. doi: 10.1109/GCCE59613.2023.10315268.

[26] Y.-H. Huang, M. Proesmans, and L. Van Gool, “Padding Investigations for CNNs in Scene Parsing Tasks,” in *2023 18th International Conference on Machine Vision and Applications (MVA)*, 2023, pp. 1–5. doi: 10.23919/MVA57639.2023.10216084.

[27] F. Alrasheedi, X. Zhong, and P.-C. Huang, “Padding Module: Learning the Padding in Deep Neural Networks,” *IEEE Access*, vol. 11, pp. 7348–7357, 2023, doi: 10.1109/ACCESS.2023.3238315.

[28] S. Ullah and S.-H. Song, “Design of compensation algorithms for zero padding and its application to a patch based deep neural network,” *PeerJ Comput Sci*, vol. 10, p. e2287, Aug. 2024, doi: 10.7717/peerj-cs.2287.

[29] H. Hassan *et al.*, “Review and classification of AI-enabled COVID-19 CT imaging models based on computer vision tasks,” *Comput Biol Med*, vol. 141, p. 105123, Feb. 2022, doi: 10.1016/J.COMPBIOMED.2021.105123.

[30] K. Alomar, H. I. Aysel, and X. Cai, “Data Augmentation in Classification and Segmentation: A Survey and New Strategies,” *J Imaging*, vol. 9, no. 2, Feb. 2023, doi: 10.3390/jimaging9020046.

[31] R. Akter and M. I. Hosen, “CNN-based Leaf Image Classification for Bangladeshi Medicinal Plant Recognition,” in *2020 Emerging Technology in Computing, Communication and Electronics (ETCCE)*, 2020, pp. 1–6. doi: 10.1109/ETCCE51779.2020.9350900.

[32] W. Zeng, “Image data augmentation techniques based on deep learning: A survey,” *Mathematical Biosciences and Engineering*, vol. 21, pp. 6190–6224, Dec. 2024, doi: 10.3934/mbe.2024272.

[33] A. Moisés, I. Vitoria, J. J. Imas, and C. Zamarreño, “Data Augmentation Techniques for Machine Learning Applied to Optical Spectroscopy Datasets in Agrifood Applications: A Comprehensive Review,” *Sensors*, vol. 23, p. 8562, Dec. 2023, doi: 10.3390/s23208562.

[34] C. Xu, W. Liu, Y. Zheng, S. Wang, and C.-H. Chang, “An Imperceptible Data Augmentation Based Blackbox Clean-Label Backdoor Attack on Deep Neural Networks,” *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. PP, pp. 1–14, Dec. 2023, doi: 10.1109/TCSI.2023.3298802.

[35] P. Thanapol, K. Lavangnananda, P. Bouvry, F. Pinel, and F. Leprevost, “Reducing Overfitting and Improving Generalization in Training Convolutional Neural Network (CNN) under Limited Sample Sizes in Image Recognition,” Dec. 2020, pp. 300–305. doi: 10.1109/InCIT50588.2020.9310787.

[36] G. Singh, K. Guleria, and S. Sharma, “A Transfer Learning-based Pre-trained VGG16 Model for Skin Disease Classification,” in *2023 IEEE 3rd Mysore Sub Section International Conference (MysuruCon)*, 2023, pp. 1–6. doi: 10.1109/MysuruCon59703.2023.10396942.

[37] W. Bakasa and S. Viriri, “VGG16 Feature Extractor with Extreme Gradient Boost Classifier for Pancreas Cancer Prediction,” *J Imaging*, vol. 9, no. 7, Jul. 2023, doi: 10.3390/jimaging9070138.

[38] Y. Bouchlaghem, Y. Akhiat, and S. Amjad, “Feature Selection: A Review and Comparative Study,” *E3S Web of Conferences*, vol. 351, p. 1046, Dec. 2022, doi: 10.1051/e3sconf/202235101046.

[39] B. Akyapı, “Machine learning and feature selection: Applications in economics and climate change,” *Environmental Data Science*, vol. 2, 2023, doi: 10.1017/eds.2023.36.

[40] S. Seydi, Y. Kanani-Sadat, M. Hasanlou, R. Sahraei, J. Chanussot, and M. Amani, “Comparison of Machine Learning Algorithms for Flood Susceptibility Mapping,” *Remote Sens (Basel)*, vol. 15, p. 192, Dec. 2022, doi: 10.3390/rs15010192.

[41] A. Shahin-Shamsabadi and J. Cappuccitti, “Proteomics and machine learning: Leveraging domain knowledge for feature selection in a skeletal muscle tissue meta-analysis,” *Heliyon*, vol. 10, p. e40772, Jan. 2024, doi: 10.1016/j.heliyon.2024.e40772.

[42] M. BÜYÜKKEÇECİ and M. Okur, “A Comprehensive Review of Feature Selection and Feature Selection Stability in Machine Learning,” *GAZI UNIVERSITY JOURNAL OF SCIENCE*, vol. 36, Dec. 2022, doi: 10.35378/gujs.993763.

[43] O. Salem, F. Liu, Y.-P. Chen, and X. Chen, “Ensemble Fuzzy Feature Selection Based on Relevancy, Redundancy, and Dependency Criteria,” *Entropy*, vol. 22, p. 757, Dec. 2020, doi: 10.3390/e22070757.

[44] H. Polat, O. Polat, and A. Çetin, "Detecting DDoS Attacks in Software-Defined Networks Through Feature Selection Methods and Machine Learning Models," *Sustainability*, 2020, doi: 10.3390/su12031035

[45] F. G. F. Niquini *et al.*, "Recursive Feature Elimination and Neural Networks Applied to the Forecast of Mass and Metallurgical Recoveries in A Brazilian Phosphate Mine," *Minerals*, vol. 13, no. 6, Jun. 2023, doi: 10.3390/min13060748.

[46] F. Jiménez, G. Sánchez, J. Palma, L. Miralles-Pechuán, and J. A. Botía, "Multivariate Feature Ranking With High-Dimensional Data for Classification Tasks," *IEEE Access*, vol. 10, pp. 60421–60437, 2022, doi: 10.1109/ACCESS.2022.3180773.

[47] T. Suryakanthi, "Evaluating the Impact of GINI Index and Information Gain on Classification using Decision Tree Classifier Algorithm*," *International Journal of Advanced Computer Science and Applications*, vol. 11, Jan. 2020, doi: 10.14569/IJACSA.2020.0110277.

[48] T. Esaki, "Appropriate Evaluation Measurements for Regression Models," *Chem-Bio Informatics Journal*, vol. 21, pp. 59–69, 2021, doi: 10.1273/cbij.21.59.

[49] N. Hassan, S. Sheikh Abdul Kadir, M. Husain, B. Satyanarayana, M. Ambak, and M. A.G., "Weight Prediction for Fishes in Setiu Wetland, Terengganu, using Machine Learning Regression Model," *BIO Web Conf*, vol. 73, Dec. 2023, doi: 10.1051/bioconf/20237301007.

[50] Y. Fissha, H. Ikeda, H. Toriya, N. Owada, T. Adachi, and Y. Kawamura, "Evaluation and Prediction of Blast-Induced Ground Vibrations: A Gaussian Process Regression (GPR) Approach," *Mining*, vol. 3, no. 4, pp. 659–682, 2023, doi: 10.3390/mining3040036.