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RiceNet: A deep convolutional neural network approach for classification of rice varieties

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Highlights

- Rice grain classification is crucial to ensure quality in the agricultural sector.
- Deep Convolutional Neural Network based RiceNet model achieved high accuracy of 94%.
- RiceNet outperforms ML traditional methods for rice grain identification.
- InceptionV3 and ResNetInceptionV2 achieved 84% and 81.333% prediction rates.

Abstract

The cultivation of desired grain varieties holds immense significance as about 67% of the world's population is associated with the agriculture sector. Unknowingly sowing the wrong variety of