

# Edible and Poisonous Mushroom Classification using Deep Learning

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**Abstract:** Mushrooms are a diverse group of fungi that exhibit a wide range of morphological characteristics, making their identification and differentiation between edible and poisonous species a challenging task. Accurate classification of mushrooms is of utmost importance for foragers, mycologists, and the general public to ensure safety and prevent ingestion of toxic species. Deep learning techniques, specifically Convolutional Neural Networks (CNNs), have shown remarkable performance in image classification tasks. This abstract proposes the use of CNNs to develop a robust and efficient system for classifying edible and poisonous mushrooms based on their visual characteristics. In this method, the user uploads an image of a mushroom and then determine whether it is edible or poisonous.

**Keywords:** Mushroom, Species, CNNs, Fungi..

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