

Classification of tea leaf diseases based on Few-shot Learning method

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Abstract: In the context of agricultural economic growth and high demand for crop pest control, this topic aims to solve the problem of automatic classification of tea leaf diseases by applying the Few-shot Learning method. The objective is to build a machine learning system capable of learning quickly from few training samples to assist agricultural experts in more effectively identifying and managing plant diseases. The research methodology includes both the theory of Few-shot Learning and experimental deployment of the application on real-world data, while also comparing the system's performance with traditional methods. The expected results will provide a useful solution for the agricultural sector and contribute to advancing information technology in plant disease management.

Keywords: Few-shot Learning, Disease Classification, Tea Plant, Agriculture