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Classifying Rice With PyTorch: A Step-by-Step Guide

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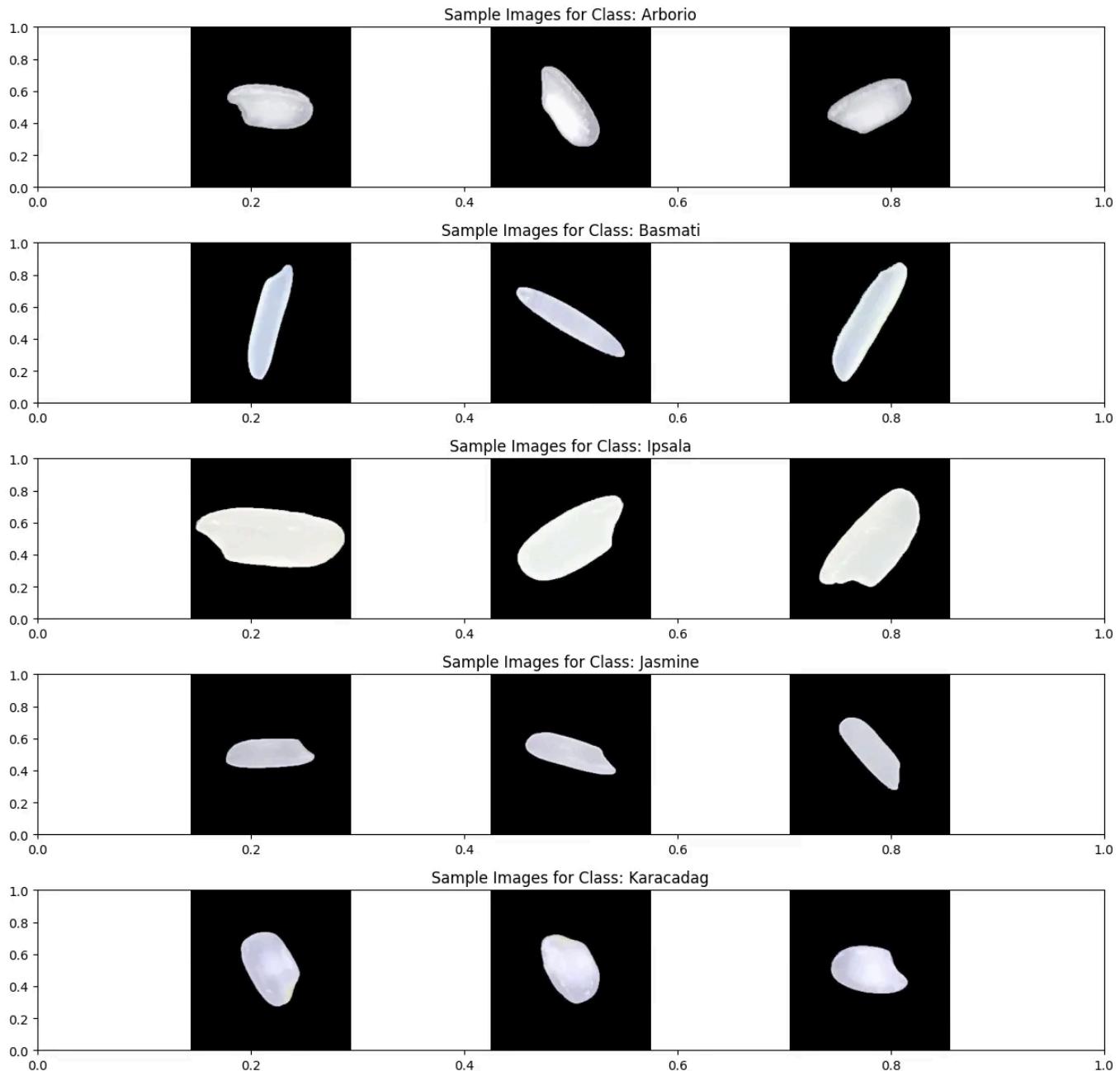
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In the fast-paced world of agriculture, being able to classify different rice varieties quickly and accurately can be a game-changer. But how can we harness machine learning for something as niche as rice classification? Well, this is where PyTorch, a powerful deep learning library, steps in. Today, I'll guide you through creating a Convolutional Neural Network (CNN) using PyTorch to classify rice varieties based on images. This hands-on tutorial is designed for anyone with a basic understanding of Python, and I'll walk you through each step of the code so you can follow along effortlessly.



Prerequisites

Before diving in, make sure you have the necessary libraries installed. Run the following command to install any missing dependencies:

```
pip install torch torchvision pandas numpy seaborn matplotlib splitfolders tabul
```

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Written by Souradip Pal

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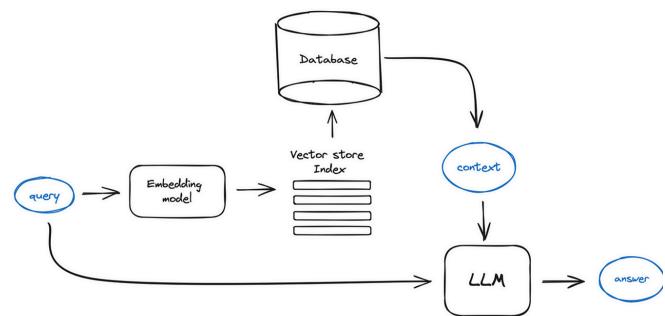


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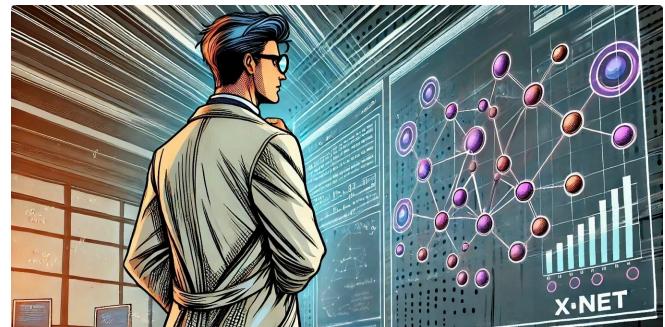
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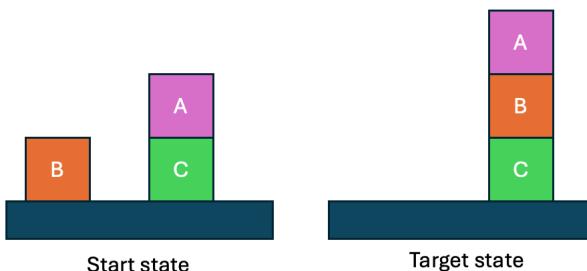
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