Conclusion

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This project demonstrates the power of transfer learning in developing an efficient and accurate butterfly image classification model across 75 species. By leveraging pre-trained convolutional neural networks, the model significantly reduces training time while maintaining high performance, making it suitable for real-world applications. The system's versatility is evident in its wide range of use cases—from supporting biodiversity monitoring and ecological research to enriching educational and citizen science initiatives. Ultimately, this approach not only aids scientific understanding and conservation of butterfly species but also empowers broader public participation in environmental stewardship, making a meaningful contribution to global biodiversity preservation.