

## **Development Environment**

- Operating System: The project is developed and tested on Windows, but it can be deployed on any operating system that supports Python and the required libraries.
- Code Editor: Visual Studio Code is used as the primary code editor for writing and managing the project's codebase. It provides a robust development environment with features like debugging, version control, and extensions for Python development.

By leveraging these software tools and technologies, the project achieves a comprehensive and efficient solution for recognizing bird sounds. The integration of powerful audio processing libraries with advanced machine learning frameworks ensures high accuracy and reliability in the predictions, while the use of web technologies provides a user-friendly interface for interacting with the system.