

References

The "Recognizing Bird Sounds" project utilizes various libraries, tools, and frameworks to achieve its objectives. This section provides references to the primary sources and documentation used in the development and implementation of the project.

1. Librosa Documentation

- Librosa is an essential library for audio processing and feature extraction.
- McFee, B., Raffel, C., Liang, D., Ellis, D. P., McVicar, M., Battenberg, E., & Nieto, O. (2015). librosa: Audio and music signal analysis in python. In Proceedings of the 14th python in science conference (pp. 18-25).
- URL: [Librosa Documentation](https://librosa.org/doc/main/)

2. TensorFlow and Keras Documentation

- TensorFlow and Keras are used for building, training, and evaluating machine learning models.
- Abadi, M., Barham, P., Chen, J., Chen, Z., Davis, A., Dean, J., ... & Zheng, X. (2016). TensorFlow: A system for large-scale machine learning. In 12th {USENIX} symposium on operating systems design and implementation ({OSDI} 16) (pp. 265-283).
- URL: [TensorFlow Documentation](https://www.tensorflow.org/)
- URL: [Keras Documentation](https://keras.io/)

3. Pandas Documentation

- Pandas is used for data manipulation and analysis.
- McKinney, W. (2010). Data structures for statistical computing in python. In Proceedings of the 9th Python in Science Conference (pp. 51-56).
- URL: [Pandas Documentation](https://pandas.pydata.org/)

4. NumPy Documentation

- NumPy provides support for large, multi-dimensional arrays and matrices.
- Harris, C. R., Millman, K. J., van der Walt, S. J., Gommers, R., Virtanen, P., Cournapeau, D., ... & Oliphant, T. E. (2020). Array programming with NumPy. Nature, 585(7825), 357-362.
- URL: [NumPy Documentation](https://numpy.org/doc/)

5. Matplotlib Documentation

- Matplotlib is used for creating static, animated, and interactive visualizations.
- Hunter, J. D. (2007). Matplotlib: A 2D graphics environment. Computing in Science & Engineering, 9(3), 90-95.
- URL: [Matplotlib Documentation](https://matplotlib.org/)

6. Flask Documentation

- Flask is the web framework used for developing the web application.
- Grinberg, M. (2018). Flask Web Development: Developing Web Applications with Python. "O'Reilly Media, Inc."
- URL: [Flask Documentation](https://flask.palletsprojects.com/en/2.0.x/)