**Teacher Rubric**

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| **Criteria** | **Excellent (4)** | **Good (3)** | **Fair (2)** | **Needs Improvement (1)** |
| **Data Conversion** | Accurately converts .wav files to .csv format with no errors. Thoroughly documents the process. | Converts .wav files to .csv format with minor errors. Documentation is clear. | Converts .wav files but with several errors. Documentation is incomplete. | Fails to convert .wav files correctly. Documentation is lacking. |
| **Python Programming** | Demonstrates advanced proficiency in Python. Code is efficient, well-commented, and follows best practices. | Shows good proficiency in Python. Code is mostly efficient and well-commented. | Basic understanding of Python. Code works but lacks efficiency and comments. | Limited understanding of Python. Code is inefficient and poorly commented. |
| **Data Analysis** | Performs thorough data analysis using Google Colab. Insights are well-explained and supported by data. | Conducts good data analysis with some insights. Explanations are mostly clear. | Basic data analysis with minimal insights. Explanations are somewhat unclear. | Limited data analysis with few insights. Explanations are unclear. |
| **Collaboration** | Actively participates in group work. Contributes valuable ideas and helps peers effectively. | Participates in group work and contributes useful ideas. | Participates minimally in group work. Contributions are limited. | Rarely participates in group work. Contributions are minimal. |
| **Problem Solving** | Demonstrates excellent problem-solving skills. Overcomes challenges independently and creatively. | Shows good problem-solving skills. Overcomes most challenges with some help. | Basic problem-solving skills. Requires assistance to overcome challenges. | Limited problem-solving skills. Struggles to overcome challenges. |
| **Documentation** | Provides comprehensive and clear documentation of the entire process, including code and analysis. | Documentation is clear and covers most aspects of the process. | Documentation is incomplete and lacks clarity. | Poor documentation. Many aspects of the process are not covered. |
| **Understanding Concepts** | Demonstrates a deep understanding of computational thinking and data processing concepts. | Shows a good understanding of computational thinking and data processing concepts. | Basic understanding of computational thinking and data processing concepts. | Limited understanding of computational thinking and data processing concepts. |