**Title – Musicfy: Text-to-Music**

**Concept - AI-Powered Music Creation**

**Theory applied to experiment-** Musicfy uses AI to transform text or recorded sounds into music by applying different instruments or sound styles. This tool allows users to create music quickly and easily without needing any technical knowledge of instruments or music composition. By experimenting with this AI, students will gain insights into how artificial intelligence can be used creatively to generate musical sounds and compositions from simple inputs like voice recordings or text descriptions.

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| **Materials required** | **Hardware Requirements:**   |  |  | | --- | --- | | **Components** | **Quantity** | | Computer or laptop with internet access | 1 |   **Software Requirements:**   |  |  | | --- | --- | | **Components** | **Quantity** | | 1. Link- [Musicfy Text-to-Music Tool](https://create.musicfy.lol/create/text-to-music) | 1 | | Web browser (Google Chrome recommended) | 1 | |
| **Procedure** | **Refer this link**  YouTube link - <https://youtu.be/vYIRTx0dTGI?si=e7Sy0Xz7HHvtXbkg> |
| **Procedure to be performed by student** | **1. Open Musicfy Text-to-Music Tool** • Navigate to [Musicfy Text-to-Music Tool](https://create.musicfy.lol/create/text-to-music). • Ensure you have access to a microphone if recording your voice.    **2. Create an Account** • If you don’t have an account, sign up using an email ID. • Log in to access the music creation features.    **3. Start a New Music Creation** • Click the “Create New” button to start your music project. • You will be given options to either upload text or record your voice.    **4. Use Case 1: Voice to Instrument Sound Conversion** • Click the "Record" button to start recording your voice or any sound.    • After recording, choose an instrument from the dropdown menu (e.g., guitar, piano, drums). • The AI will convert your recorded voice into the sound of the selected instrument. • Press “Play” to hear how your voice is transformed into music.    **5. Use Case 2: Generate Music from Text** • Enter a short description of the type of music you want to create (e.g., "A soft piano melody with a calming vibe"). • Select an instrument or music style (like electronic, classical, or pop). • Click “Generate” to create music based on the text prompt. • Listen to the AI-generated track, and feel free to tweak the input text for different results.    **6. Use Case 3: Remixing Existing Audio** • Upload an existing sound file or audio clip. • Choose to remix it with different instruments or effects provided by the AI. • The tool will generate a new version of the track based on the selected sound transformations.    **7. Experiment with Sound Variations** • Try using different inputs (voice, text, or audio files) and selecting various instruments to see how the AI modifies the sound. • Experiment with sound effects like reverb, echo, or distortion to enhance the music.  **8. Save and Export** • Once satisfied with your music creation, click “Save” to download your composition. • Share the track with your classmates or save it for future projects. |
| **Observation /analysis** | Students will analyze how Musicfy interprets their recorded sounds, text inputs, or uploaded audio files and transforms them into music with the selected instruments. They should also explore how small changes in input (e.g., text description, instrument selection) impact the final music output. |
| **Conclusion** | Students will conclude how Musicfy uses AI to make music generation accessible and easy, even for those without musical skills. It highlights how AI can bridge the gap between creativity and technology in music production. |
| **Experiment takeaways** | • Students will understand how AI tools simplify music creation. • They will observe how AI transforms different input types (voice, text, audio) into music. • Students will gain hands-on experience in producing creative audio content using AI. |
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