Music note tuner and finder

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* DIY Kit for my project! – What’s needed? Just an Arduino IDE, Microphone Sensor, LCD Screen, and an Elagoo Mega 2560 Board – Everything that comes in a kit!

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| --- | --- |
| **Rule-Based AI Algorithm** | **Explanations** |
| If-then | If a note is < or > + or - .25 then a note is either sharp or flat |
| Fact statement | A musical note will always be Sharp, flat, or in tune. It cannot be more than one of these. It also must be one of these |

2 Potentiometers

* One of these is for the LCD screen. It controls the brightness
* The second one is on the sound sensor. It must be tuned to 512 in the serial monitor for the tuner to work

Liquid Crystal layout

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0,0 | 0,1 | 0,2 | 0,3 | 0,4 | 0,5 | 0,6 | 0,7 | 0,8 |
| 0,1 | 1,1 | 1,2 | 1,3 | 1,4 | 1,5 | 1,6 | 1,7 | 1,8 |

Voice works best

* Use your voice for the sound, it gives the best result and is the most likely to work

https://github.com/ewhanse/AI\_Music\_Note\_Finder\_And\_Tuner – Github link with whole project