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| Project Name  Sound Sensor Alarm System | | | | | |
| **Risk Zone** | **Risk Descriptions** | **Likelihood (Score 1-5)** | **Impact (Score 1-5)** | **Risk Score** **Likelihood x Impact** | **Risk Remediation Actions Required** |
| Zone 1 - Truth, Disinformation, Propaganda | Unintended false alarms could cause panic or misinformation in shared spaces. | 2 | 3 | 6 | Ensure proper calibration, user education, and minimal external announcements. |
| Zone 2 - Addiction & the Dopamine Economy | System unlikely to be habit-forming or addictive. | 1 | 1 | 1 | No remediation needed |
| Zone 3 - Economic & Asset Inequalities | Users with fewer resources may not access this safety tech. | 3 | 3 | 9 | Develop low-cost versions; consider open-source design. |
| Zone 4 - Machine Ethics &  Algorithmic Biases | ML model might misclassify certain cultural or environmental sound patterns. | 3 | 4 | 12 | Train on diverse datasets; conduct fairness audits. |
| Zone 5 - Surveillance State | Constant sound monitoring could be misused for spying. | 4 | 4 | 16 | Encrypt audio data, ensure local processing, and be transparent about use. |
| Zone 6 - Data Control & Monetization | Audio data could be stored or sold without consent. | 3 | 5 | 15 | User consent, data minimization, and GDPR-compliant policies |
| Zone 7 - Implicit Trust &  User Understanding | Users may over-trust the system to always detect danger. | 4 | 3 | 12 | Clear warnings and documentation about limitations. |
| Zone 8 - Hateful &  Criminal Actors | Potential misuse for surveillance in domestic abuse or criminal setups. | 2 | 5 | 10 | Add visible indicators of operation, restrict remote spying functions. |