

Social Responsibility and Generative AI

Leon Parepko (l.parepko@innopolis.university), Ayaz Sunagatulin (a.sunagatullin@innopolis.university)

Introduction:

In recent years, the field of artificial intelligence (AI) has seen significant advancements in voice generative models. These models, like the Reverse Voice Conversion (RVC) model, can revolutionize various industries. This poster explores the importance of social responsibility in generative AI, focusing on the RVC model.

Social Responsibility and Generative AI:

As AI evolves, its social responsibility comes into question. Ethical concerns arise regarding social dynamics, privacy, and biases. In the context of voice generative models, responsible deployment and usage are crucial for ethical outcomes. Considerations surrounding social responsibility and AI in voice generative models, specifically the RVC model, include:

1. **Data Privacy and Consent:** Voice data collection raises privacy concerns. Informed consent is essential for using individuals' voices as training data. Protecting user data and being transparent about its usage are important.
2. **Bias Mitigation:** RVC models must address biases in training data related to gender, race, etc. Fairness and avoiding the propagation of discriminatory biases are crucial.
3. **Misuse of Technology:** Voice generative models, like the RVC model, can be misused for impersonation or manipulation. Research should focus on identifying vulnerabilities, developing safeguards, and detection mechanisms against misuse.
4. **Accountability and Transparency:** As AI systems become complex, organizations working on voice generative models, including RVC models, must explain their functioning, share methodologies, and encourage external scrutiny. This builds trust and promotes responsible use.

Conclusion

In conclusion, the development and deployment of voice generative models, specifically the RVC model, require social responsibility. Privacy, bias mitigation, prevention of misuse, and accountability are essential. By addressing these points, AI technologies can uphold societal values and contribute positively to our lives.

For additional information about our work, please visit: <https://github.com/Leon-Parepko/Audio-Generation>