# 16. Melody harmonization with genetic algorithms Generative Music AI



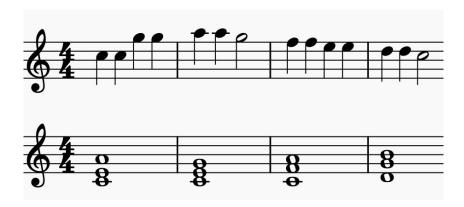




### Harmonization task



#### Harmonization task



MelodyData (dataclass)

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Genetic Melody Harmonizer

generate(generations)

MelodyData (dataclass)

GeneticMelodyHarmonizer

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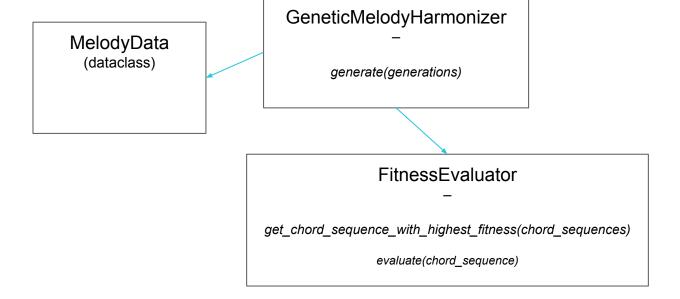
generate(generations)

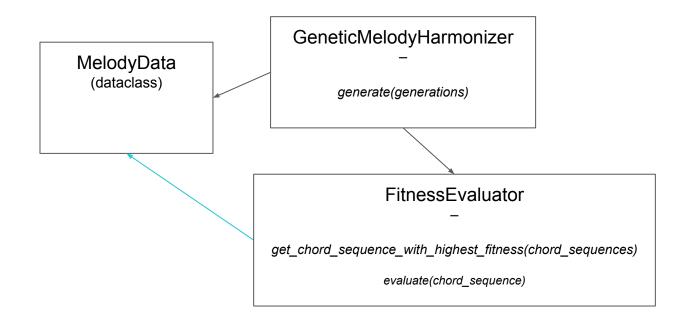
FitnessEvaluator

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get\_chord\_sequence\_with\_highest\_fitness(chord\_sequences)

evaluate(chord\_sequence)





## **Exploration**

- Change melody
- Change weights
- Modify / add fitness criteria
- Implement melody generation
- ..

# What's up next?

# **Transformers**