

Machine Learning for Code Generation: Literature Review Nikita Safronov

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- [1] Dehaerne et al. "Code Generation Using Machine Learning," IEEE Access, 2022.
 - [2] Yin, Neubig. "A Syntactic Neural Model for Code Generation," CoRR, 2017.
 - [3] Desai et al. "Program synthesis using natural language," ACM, 2016.

Which ML models are used?

- •RNN Sequential data.
- •CNN Local patterns.
- •Transformer Long-range dependencies.

Where does training data come from?

- 62% GitHub (large datasets).
- 20% StackOverflow (NL-code pairs).
- 18% Other sources (custom datasets).

Thanks for the Attention!

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