

# MathGPT

**nanoGPT for mathematical reasoning**

Rafał Leja

# Goals

- Create a model that can solve mathematical problems

# Success criteria

## The model can:

- solve simple mathematical problems
- solve in multiple steps
- solve basic arithmetic problems

# Data

## Math problems:

- MATH Dataset
- Mathematics dataset

## Arithmetic data:

- easily generated with Python

# Model

**nanoGPT with initial weights from GPT-2**

# Potential problems

- Number Tokenization
- Model size
- Overfitting