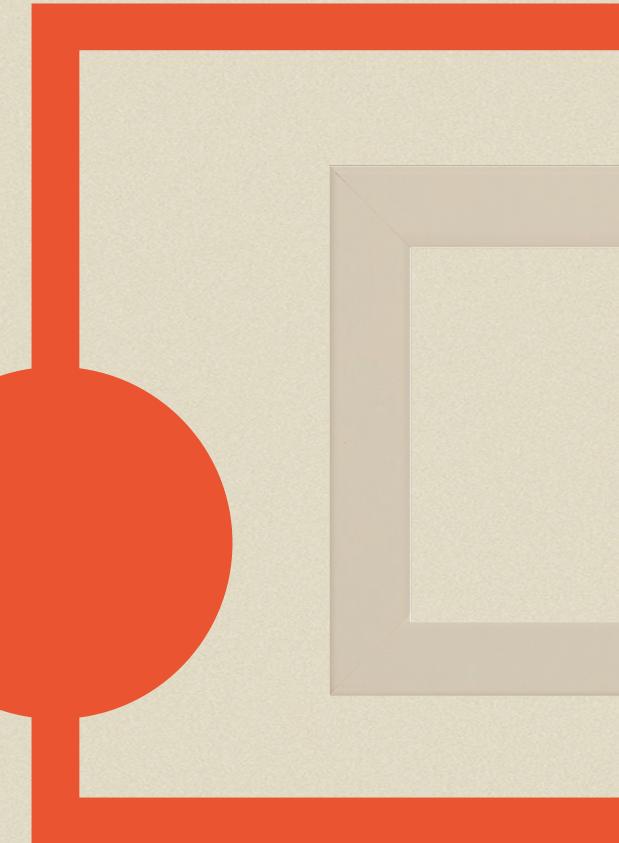


Fine-Tuned T5 Model for SQL-To-Text

Chris Lewis



01



Task

Given a SQL query, produce a natural language question that the query answers



Dataset

WikiSQL by Salesforce, with 87,726 total examples



Input/Output

- **Input:** SELECT flower color FROM table WHERE name = tulip
- **Output:** What is the flower color of a tulip?

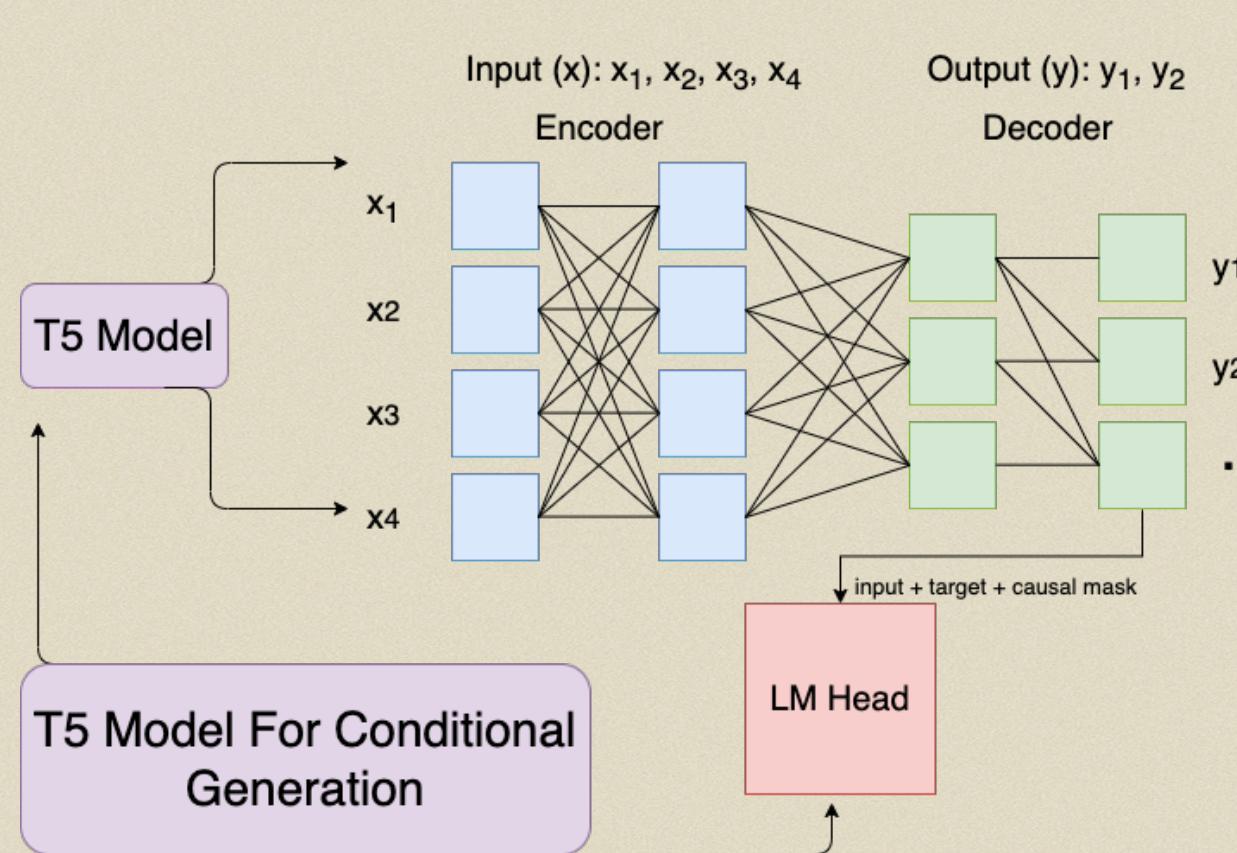


Experimental Setup

- **Sampling method:** Beam search
- **Automated Metric:** BLEU
- **Custom Metric:** Human evaluation

02

Model



Pre-trained

- **Model:** CodeT5-base
- **Learning Rate:** $2e^{-4}$
- **Optimizer:** AdaFactor

Fine-tuned

- **Model:** T5-FCG
- **Learning Rate:** $3e^{-4}$
- **Optimizer:** AdaFactor

03

Results

