## Data Mining Homework 05

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## 1 Extract Code Features from AST

Solution. Please refer to code task1/extractors/method\_declaration\_visitor.py, object\_creation\_visitor.py method\_invocation\_visitor.py for details.

The output is as follows.

## 2 Differentially Private Stochastic Gradient Descent

Solution. Please refer to the code task2/model.py for details.

The results are as follows.

ACC@10	MRR	NDCG@10
0.7580	0.3172	0.4219

表 1: Results of Task 2

The evidence for model training is at task2/output/202306111721/logs.txt.