

## **Assignment: Prompt Optimization using DSPy (GEPA Optimizer)**

### **Task**

Implement 2 prompt optimization tasks using the GEPA optimizer in DSPy.

Choose any 2 tasks, such as RAG, classification, question answering, summarization, etc, using open-source datasets.

### **Evaluation Criteria**

1. Dataset preparation
2. Choice of run configuration and evaluation metrics
3. Number of optimization runs and final outputs

### **Submission**

Share a Google Colab notebook with:

- Complete runnable code
- All outputs visible
- Results for both tasks

You may refer to these resources:

<https://www.youtube.com/watch?v=l9ZtkqYZnOw>

<https://www.youtube.com/watch?v=grluzesOwwU>

<https://agentnotes.ai/>

**Deadline:** 3 days