



# Supplementary Document for Fine-grained Annotation of Privacy Policy Data Collection Practices using Contextual Integrity and Large Language Models

Razieh Eskandari<sup>1</sup>, Rasool Jalili<sup>1</sup>

1. Department of Computer Engineering, Sharif University of Technology, Tehran, Iran

Received month dd, yyyy; accepted month dd, yyyy

E-mail: r.eskandari@sharif.edu.

© Higher Education Press 2026

## ■ Appendixes

### 0.1 Conditions in Privacy Policy

Table 1 in provides several straightforward examples of conditions related to data collection or sharing. In practice, conditions may manifest as fragmented text in lists, tables, and other structures.

Table 1 Examples Conditions which Appears in Datasets used in the Literature

#	Some Example Conditions
1	"If you choose to enable the " <i>Allow Others to Add feature</i> ", your telephone number is used in application [?]."
2	"If users click/press the UI element, the application will access the information [?]."
3	"If it was required to do so in response to valid legal requests, such as through a court order or search warrant, the application will share the information with the court."
4	"In some of our games you may find a camera button, once pressed it will simply take a picture of what you are seeing [?]."
5	"If you enable location service and your age is not older than 13 years, we will collect your location [?]."
6	"If users enable feature/function/service, the application will access the information [?]."
7	"If the customer is traveling with a parent, or the customer is not older than 13 years, the system does not collect personal information such as card number."
8	"When using <i>CompanyManagement-manager</i> network services for online transactions, you will inevitably disclose your personal information, such as contact information or postal address, to the counterparty or potential counter-party [?]."
9	"Only other registered Marco Polo users who already have your phone number in their phone's address book, are in a group with you, or you invited to Marco Polo may see your name, photo, mobile number, email, birth day, and/or birth month [?], [?]."
10	"Our policy is not to disclose personal information collected online to a third party for directing marketing without your explicit approval [?]."

### AT Selection for PoliGraph Dataset

Figure ??, ??, and 3 are heat-maps of aggregated recall, precision and F1 for PoliGraph dataset, for prompt PI at different acceptance thresholds (AT = 2-9). These Figures shows how the ensemble consensus threshold affects the final accepted data types. Also, it represent that which LLM combination should be selected to gain the best recall, precision, or F1 over different acceptance thresholds.

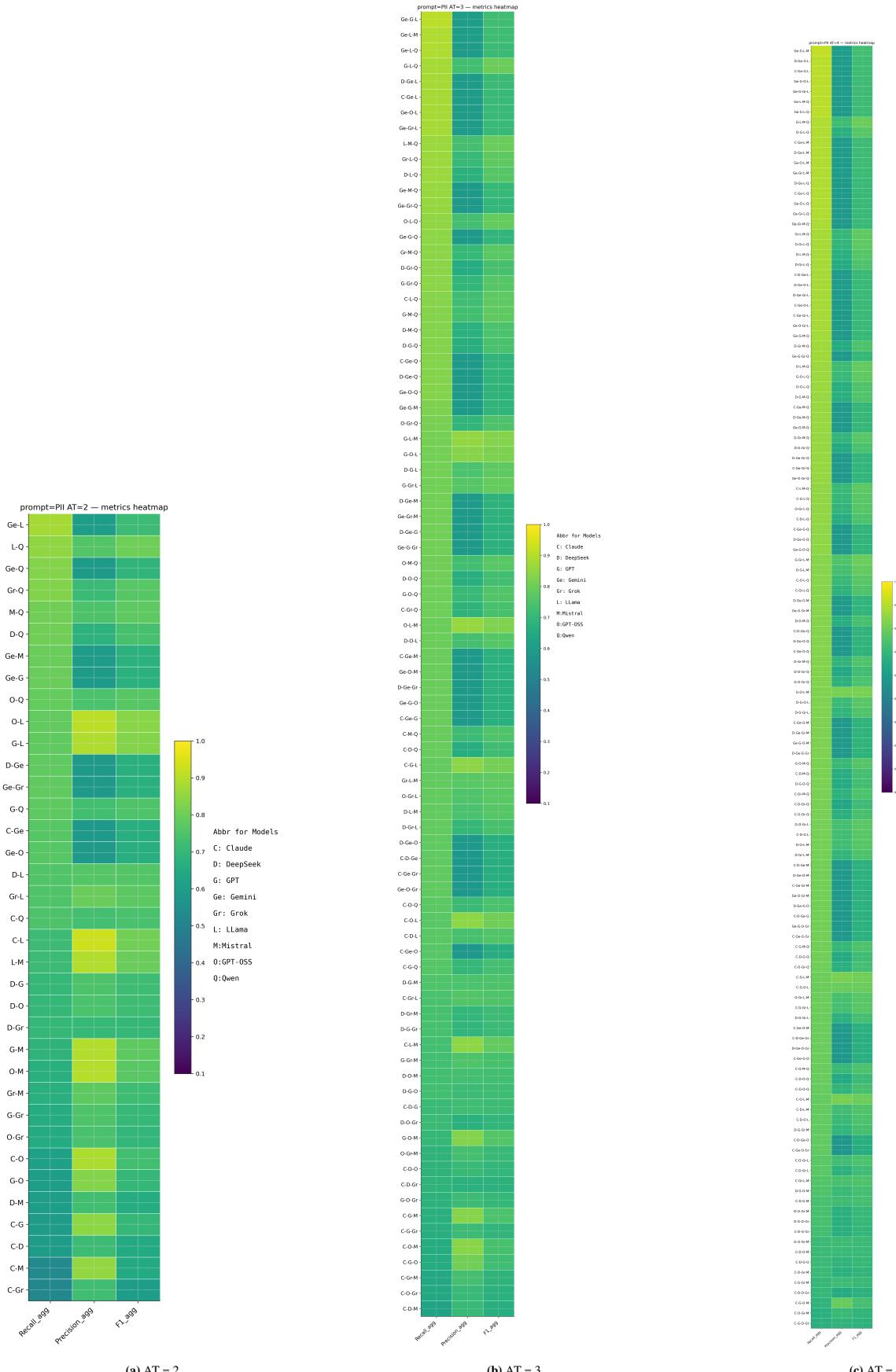
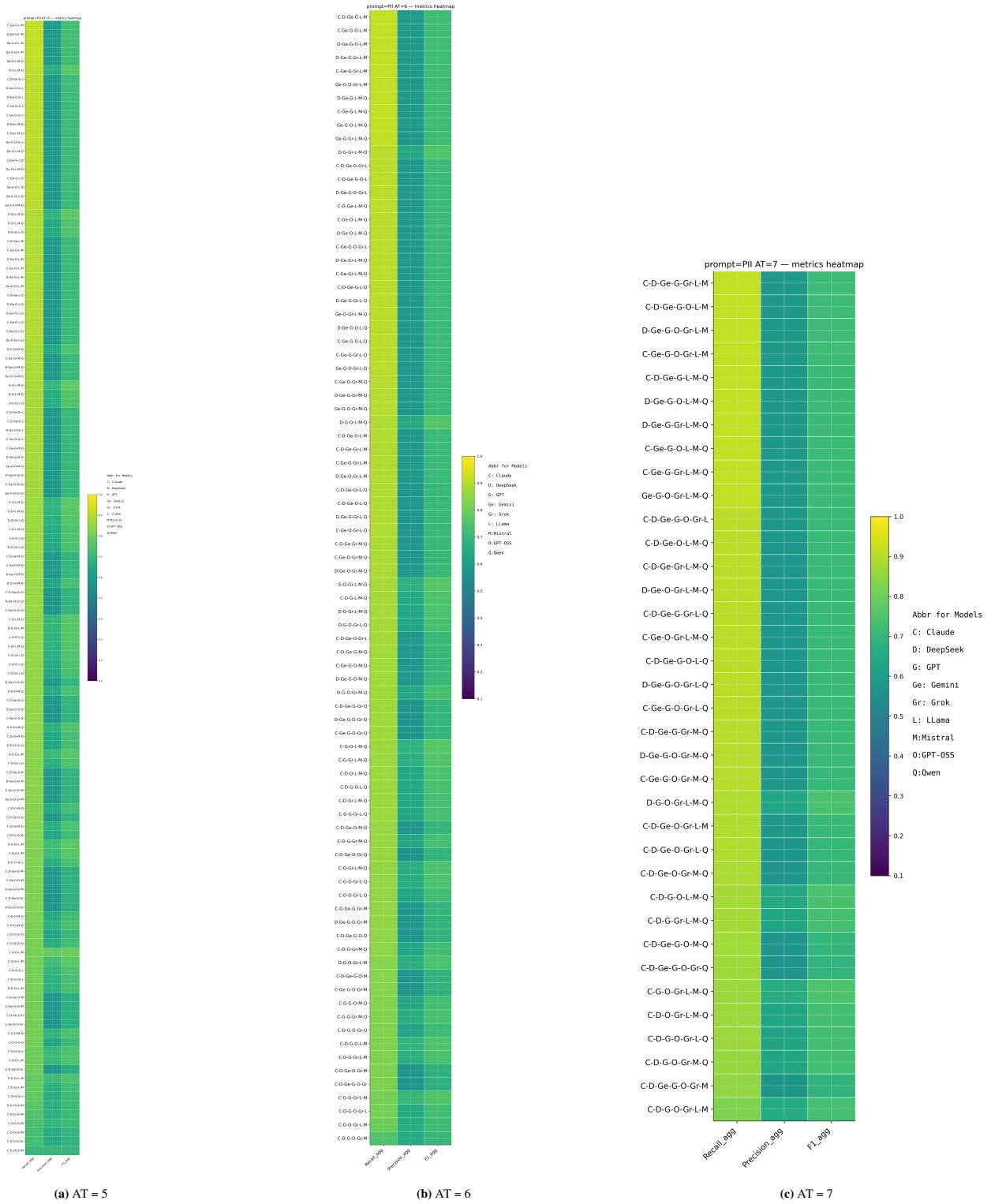
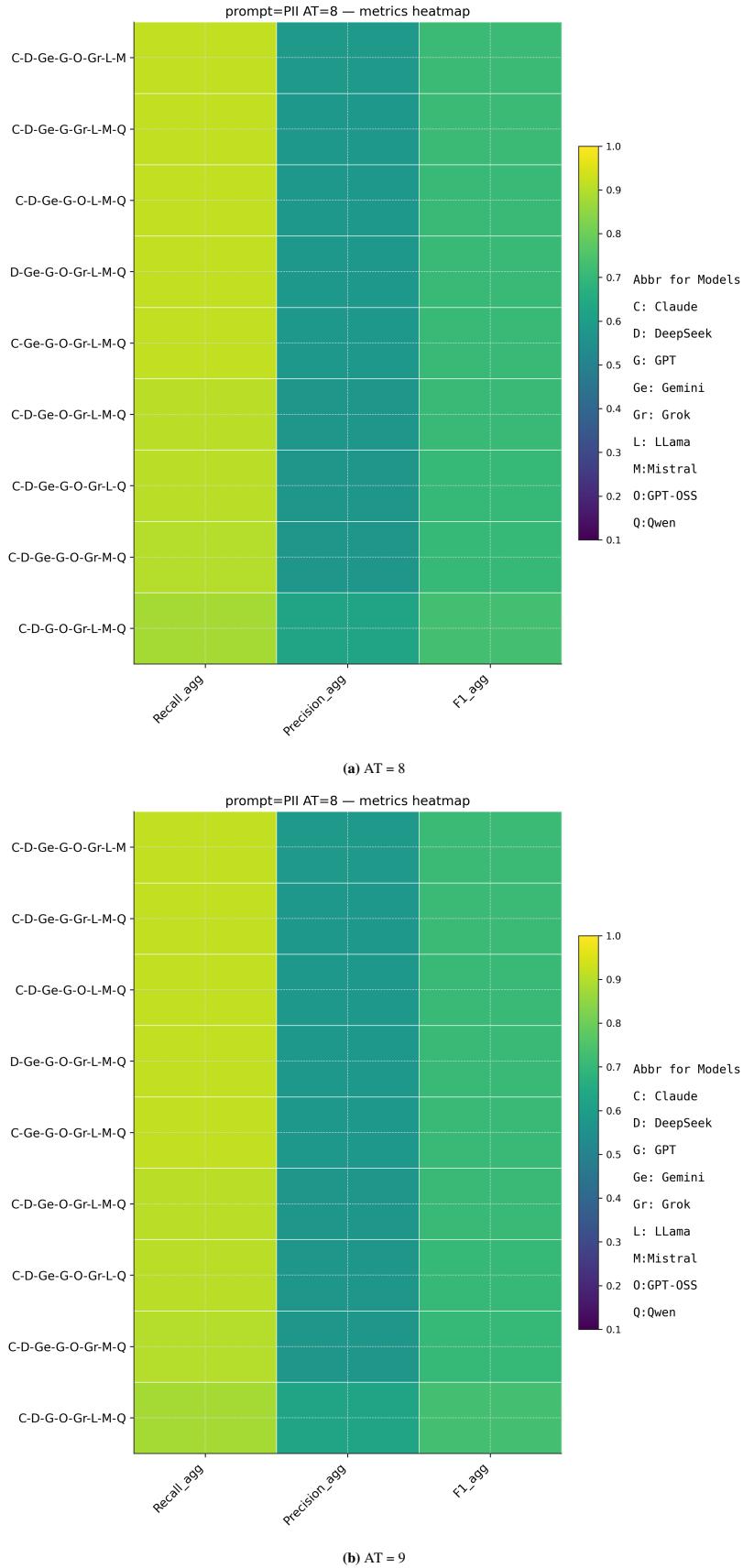


Fig. 1 Heat-maps for AT = 2-4

**Fig. 2** Heat-maps for AT = 5-7



**Fig. 3** Heat-maps for AT = 8-9