

What Does the Indian Parliament Discuss? An Exploratory Analysis of the Question Hour in the Lok Sabha

Dataset

- ✤ Name: TCPD-IPD^[1]
- **Type:** Indian parliamentary data of the question hour session
- ***** Questions are-
 - > Asked by: Members of Parliament
 - **Answered by:** Respective Ministry
- **Time span:** 1999-2019
- Size: 298,292 pairs of questions and answers
- **Changuage:** English

Data Distribution – Ministry wise



Top-10 ministries and their data distribution.

Findings:

- There are 85 different ministries.
- Top-10 ministries constitute around 50% of the entire dataset.
- Finance, Railways, and Health and Family *Welfare* are the **top-3 ministries**.



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Temporal evolution of 5 selected topics from **Ministry of Finance** using LDAseq^[2]

Findings:



Top-10 most discussed topics in the Indian Parliament.

Peaks in the topic 'Agricultural loan' in 2008 and 2014 relate to the debt waivers in agricultural loan announced at that time. Focus on '*Rural development*' slowly reduces. • Other topics like 'Banking', 'Economical growth' and 'Pension schemes' remain stable.



Findings:

- debit cards.
- 'cheque' reduces.

REFERENCES:





Topic Words Over Time

Finance using LDAseq^[2]

The word 'credit_card' peaks in 2007 relate to three major happenings at that time:

 \succ Growing credit card frauds in India.

 \succ Sudden rise in credit card interest rates.

> Major improvements in Kisan Credit Card (KCC) scheme.

Steady rise in discussion on 'debit card' correlates with the increasing adoption of

With demonstration and increased

government emphasis on cashless transaction, terms like 'atm', 'npci', 'digital_transaction' and 'cyber_security' gain prominence. Popularity of cash-transaction medium like

[1] Trivedi Centre for Political Data, Ashoka University. (2019). TPCD-IPD: TCPD Indian Parliament Dataset (Question Hour) 1.0.

[2] David M. Blei and John D. Lafferty. 2006. Dynamic topic models. In Proceedings of the 23rd international conference on Machine learning.