

CATEGORY RANKING

1. **PROJECT ID:** 43

TITLE: Category Ranking

2. **GITHUB LINK:** <https://github.com/20188202010/SMAI>

3. **TEAM MEMBERS:**

Sarvat Ali	2018201009
Prabha Pandey	2018201053
Sai Sukrutha	2018201054
Shruti Chandra	2018202010

4. **MAIN GOALS OF THE PROJECT**

- Topic-ranking of documents where each document can be associated with multiple relevant topics.
- To understand that given research paper <http://www.jmlr.org/papers/volume3/crammer03b/crammer03b.pdf> would be used.
- To build some other model to achieve results at par.

5. **PROBLEM DEFINITION**

- Given a stream of documents and a predefined set of topics, find the topic(s) a document is associated with and rank them.

6. **RESULTS OF THE PROJECT**

- Detecting and ranking given document according to relevant topics.

7. **IMPLEMENTATION DETAILS**

- Implementation of algorithm given in the research paper.
- Calculate accuracy of the model created.
- Improve the model to enhance the accuracy by implementing appropriate loss functions and weight updates for each topic.