



INTERNATIONAL INSTITUTE OF  
INFORMATION TECHNOLOGY

H Y D E R A B A D

## CS6.302.M21 Software Systems Development

### Project Report

# PAPER RANKER

BY DEVALAPPARZ

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Mentor: Ashutosh Ranjan

Project Github Repo: [PAPER-RANKER-21](#)

Video Demo: [Project Demo](#)

## Project Information:

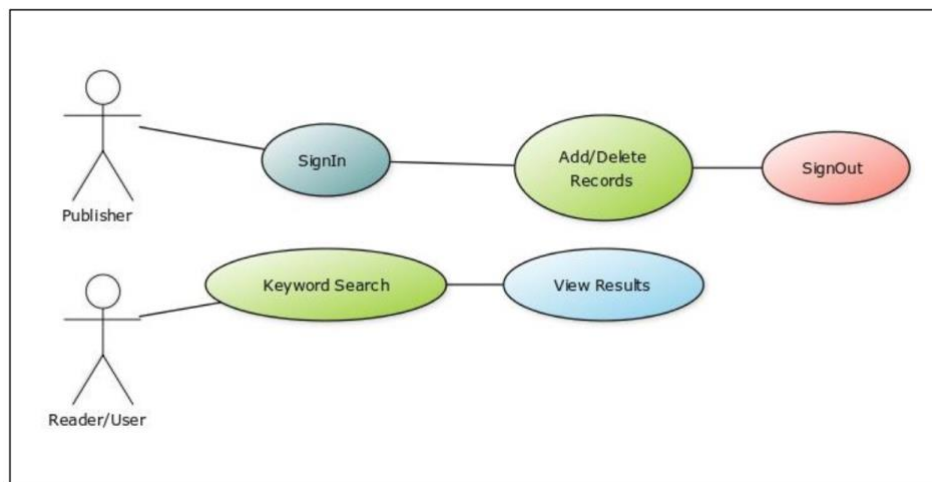
- Have you ever struggled when you wanted to look for research papers? Or you've published a paper and are looking for some platform for others to read?
- We cater to the needs of "Students" (/any user) who is searching for some research paper to read and "Publishers" who want to promote their paper(s) and need a platform where they can add or delete their paper(s).
- This project, **Paper Rankers**, is a portal which provides the user with a sorted list of research papers, based on the ranks of the conferences they were published in.
- Entering a keyword into the would fetch them a list, while they can also sign up as a publisher and add their valid research paper for other to look at.

## Requirements & Software Used:

- Frontend: HTML5, CSS3, JavaScript, Bootstrap, jQuery.
- Backend: MongoDB, Flask, Python
- Python Libraries:
  - BeautifulSoup
  - Flask-Login, Flask-Paginate, Flask-cors
  - MongoEngine
- Postman

Our repo contains *requirement.txt* which contains all the packages and/or libraries that will be needed on the machine to run our project.

## Workflow:



### A. Stakeholders-

- i. Reader/User
- ii. Publisher

### B. Roles and Responsibilities of Stakeholders

#### ○ Publisher:

- i. Will have to signup first as a publisher and then login to add paper(s) under his account, which will then be available for search.
- ii. Papers will be added only if a valid Conference is provided, else an alert will popup restricting the addition.
- iii. He/she could also delete the added papers which will then be removed from the database.

#### ○ Reader:

- i. On the landing page of the website, will enter keyword(s) and hit search button.

- ii. Research papers related to those keyword(s) will be fetched from online resources and will be displayed back to him.
- iii. Ranks of the research papers will also be displayed according to the conference they were published in.
- iv. Papers will be sorted in the decreasing order of their ranks (10 papers per page).

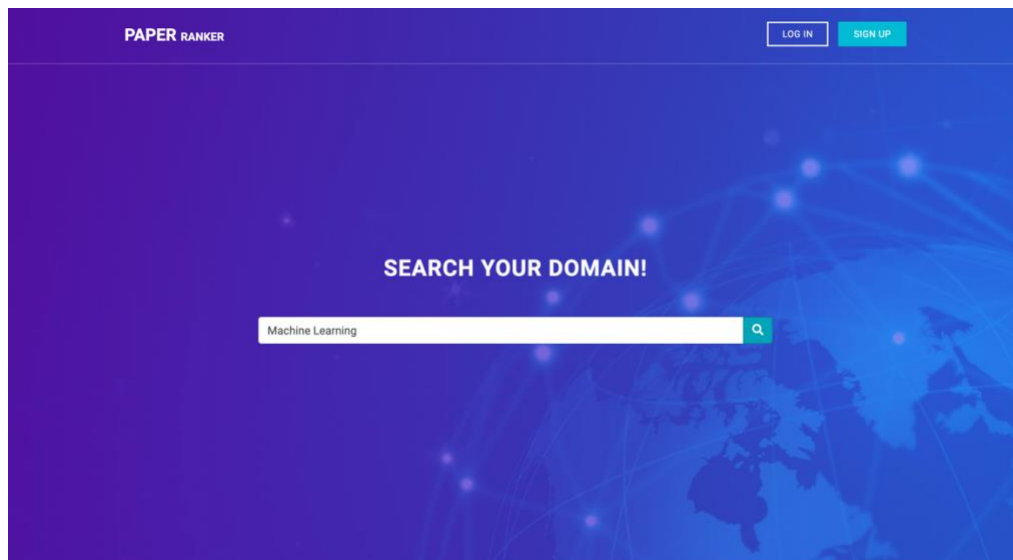
## Individual Contribution:

This project enabled us to work as a team and incorporate our individual ideas and thought processes which finally lead to a great product at hand.

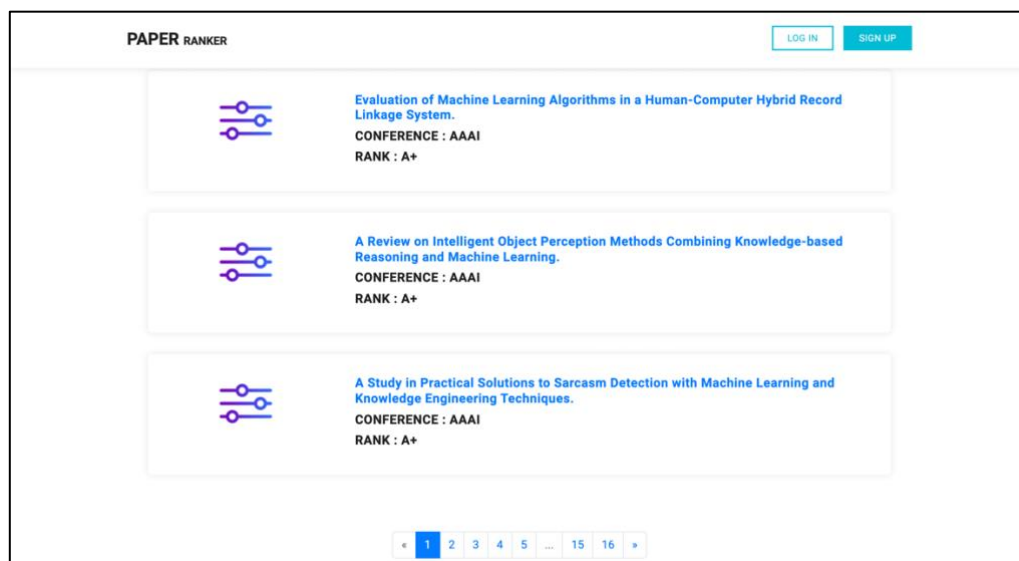
ID	REQUIREMENT NAME	CATEGORY	DESCRIPTION	OWNER
1.	Design	Frontend	Web Template Design	Vineet & Ashish
2.	API Integration	Frontend	Dynamically populating data through API	Arun & Vineet
3.	API Development	Backend	Developing APIs for interfacing with the frontend	Arun & Shreyash
4.	Database handling	Backend	Database CRUD operations	Shreyash & Jayaraj
5.	External Data Curation	Backend	Scraping information from external sources	Jayaraj & Ashish

# Snapshots:

## ➤ Landing Page



## ➤ Search Results



## ➤ Adding Paper

### Paper Details

Title

Envelope-Based Approaches to Real-Time Heuristic Search

Conference

AAAI

Year

2021

URL

<https://ojs.aaai.org/index.php/AAAI/article/view/5614>

Submit

## ➤ Publisher Dashboard

Paper Ranker Home Add paper Logout Thomas Wilde

Title	Conference	Rank	
Envelope-Based Approaches to Real-Time Heuristic Search	AAAI	A+	Delete
Architecting a Differentially Private SQL Engine.	CIDR	A	Delete