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Amrita School of Computing

Technical Report

Insert Report Title Here



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Abstract

Give a description of the project in 100 words. The description should consist of the problem to be addressed in the project and the motivation of the project. The abstract should answer the following questions.

What is the problem to be addressed in the project?

Why is the problem relevant ?

What is the motivation of the project ?

What are the persisting challenges in addressing the problem?

1 Introduction

Introduction may span 1.5 to 2 pages.

Give an introduction to the problem that you address in this work. Give Motivation for this research and general description of the problem Give a suitable example scenario to detail the motivation.

What are the persisting challenges in addressing the problem? What solutions in general are existing?

What is your solution approach and why do you think that it is good Specific research objectives need to be stated.

The contributions of this work are

-

2 Literature Survey

Do a literature survey and identify five most suitable base papers that align with your project. For each of those papers, write a paragraph that subsumes, Contributions of the paper: (A short paragraph of less than 50 words) , Limitations of the paper : (A short paragraph of less than 50 words) , Open Problems/Future work possible: (Enumerate the list)

Literature survey may span 2 to 3 pages.

A sample paragraph on literature survey is given as follows :

Health metaverse is proposed based on the analysis of 34,000 related papers[1]. The authors used Zipf's, Bradford's, and Lotka's Laws to identify keywords and research strategies. They visualized trends and challenges, including privacy, gamification, and AI reliability. The metaverse, using cutting-edge technology, provides innovative solutions but may take decades to fully implement.

Summary of the background study is presented in Table 1

Table 1: *Summary of the Related works*

| Paper | Title/Year | Problem addressed | Contributions | Limitations | Open Problems |
|-------|------------|-------------------|---------------|-------------|---------------|
| | | | | | |

3 Proposed Methodology

Give a high level design of the solution approach.

A good resolution figure may be given. A sample is shown in Figure 1

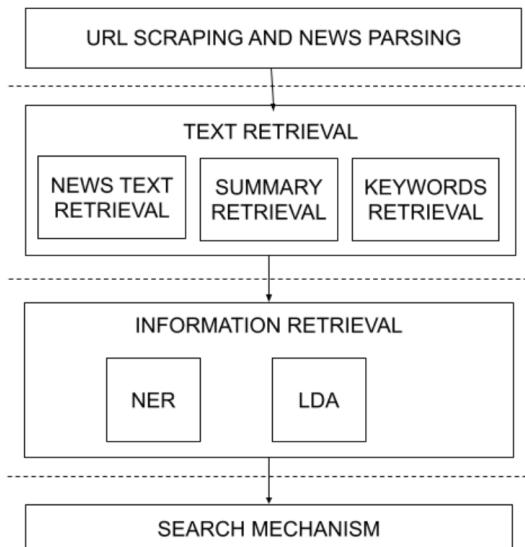


Figure 1: *Proposed Modules*

A subsection for each of the modules need to be added.

3.1 Module 1

Give necessary details of Module 1. Essential figures may be added if required.

3.2 Module 2

Give necessary details of Module 2. Essential figures may be added if required.

3.3 Algorithms

Give details of the algorithms used.

Also give explanation of how these algorithms are used in solving the problems. The prerequisites, if any, need to be explained. Any equations to clarify the algorithms, if necessary, may also be given.

A sample algorithm is shown in Algorithm 1

Algorithm 1 Pseudocode for existing model

- 1: **Input** Subset of Features with corresponding values; Required Target feature name
 - 2: **Output** Target feature value
 - 3: Retrieve the coefficient values from the database for the given input subset of features
 - 4: **for** each record in the features' coefficient values **do**
 - 5: Apply linear regression
 - 6: $h_{\theta}(x) \leftarrow \theta^T \cdot X$, where θ and X are column matrices
 - 7: **end for**
-

4 Experimental Results

4.1 Experimental Setup

Give details of softwares, hardwares used.

Give details of various types of experiments done and the datasets used.

Add subsection for each of the experiments done.

4.2 Experiment 1

Give plots/tables/figures/charts corresponding to Experiment 1

For each of the plots, give your inferences and detailed explanation

4.3 Experiment 2

Give plots/tables/figures/charts corresponding to Experiment 2 For each of the plots, give your inferences and detailed explanation

5 Conclusions

Summarize the work and the findings. Give the contributions. Give the future scope.

References

- [1] Zhang R Chen D. Exploring research trends of emerging technologies in health metaverse: A bibliometric analysis. *SSRN*, January 2022. doi: <https://doi.org/10.2139/ssrn.3998068>.