Report On

**ARTIFICIAL INTELLIGENCE PROJECT**

**(RECOMMENDATION SYSTEM FOR ACADEMIC RESEARCH)**

**By**

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**Problem Statement:**

Most projects that are being created now-a-days usually start with the first and most crucial step: **Active Research**. Trying to learn what different research people have done and creating a baseline on their work is important for one’s project’s ability to add value. Not only just learning from what their research or work has concluded, but also have to figure out what one shouldn’t do in their project to make it a success.

Consider, I have collected different academic publications that I read through like (.pdf, .xls, .doc, .csv) i.e., different kinds of file formats with information describing the results of different experiments and researches. Here comes the question: **Can we create a recommendation system that compares all the research files I have in my archive and help guide me in my next project?**

***Note****: This won’t be just for a repository of all of the research you may be collecting from various search engines, but it will also work for any directory you have containing various types of different documents.*

**What is Recommendation System:**

Consider a person went to shopping for a particular event. Based on the event, his dressing sense, his choice of selection (like color, design, kind of dress like formal, casual, etc.,) the sales manager can recommend him or help him in choosing some of the best dress materials the person needs. This is what generally we meant recommending a particular product for a user.

Similarly given different files (i.e., different extensions) with various kinds of content and research conclusions in a database, one can create a system that decides which is the best suited for the user to choose for his purpose. The machine learns the patterns among the documents and finds if there exists any similarity among the files in the database so that it can recommend a particular file / s for the user.

**How can we use AI?:**

First we will train the machine to extract the primary contents that are important to find similarity and probability factor of choosing a particular file from different publications in a database. This can be done by first converting the data in the files into understandable numerical language so that machine can learn about the information in the files. For each file format we have to convert them into numerical language in different process. Then we will train the machine to find the values which describe the probability of recommending a particular file and whether there are any files similar to that kind of recommended file. This all depends on how intelligently we train the machine to get better recommendations.