Medicine Recommender System

Liam Attard

Abstract—**hello World**

Index Terms—**Recommender Systems, Health Care AI, Collaborative Filtering.**

I. INTRODUCTION

With over 20,000 prescription-only FDA approved medications [1], doctors may face a challenge when prescribing medicine to a specific patient. Unfortunately, the FDA receives more than 100,000 declarations of medication errors each year in the United States alone. Modern hospitals use Electronic Health Records (EHR) to keep track of everything and deal with this complexity.

EHR are a collection of clinical information gathered from health care patients. The mass adoption of such systems delivers a large amount of data compiled on a patient's diagnosed conditions, medical prescriptions, procedures and any health-related history.

This data provides opportunities for machine learning systems, such as Recommender Systems (RS), to aid medical experts in prescribing personalised medication for each patient.

A. Different AI concepts being brought together

B. Research Question

II. AIM AND OBJECTIVES

A. Aim

The main of this proposed project is to ...

B. Objectives

Tom achieve the above mention aim a number of objectives have been set and that will later be tested in an exercise to evaluate the success of reaching the same aim.

- The first objective ...
- The second objective ...
- The third objective ...

III. BACKGROUND

A. Techniques

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B. Similar Systems

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IV. PROPOSED IDEA

A. Testing and Evaluation

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B. Challanges and Limitations

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REFERENCES

[1] L. Sun, C. Liu, C. Guo, H. Xiong, and Y. Xie, "Data-driven Automatic Treatment Regimen Development and Recommendation KDD '16," *Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*. [Online]. Available: http://dx.doi.org/10.1145/2939672.2939866