

# A Review on Study of Medicine Prescription System

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**Abstract**— In addition, results of health services research could lead to greater efficiency & equitable delivery of health care interventions, as advanced through social model of health & disability, which emphasizes societal changes that could be made to make population Results from health services research often form basis of evidence-based policy in health care systems. Health services research is also aided by initiatives in field of AI for development of systems of health assessment that are clinically useful, timely, sensitive to change, culturally sensitive, low burden, low cost, involving for patient & built into standard procedures.

**Key words:** Artificial Intelligence, Data Mining, Pre-Processing, Clinical Informatics

## I. INTRODUCTION

Artificial intelligence is intelligence display by machines. In computer science an ideal intelligent machine is a variable rational agent that recognizes its environment & takes actions that maximize its chance of success at some aim. AI research is divided into subarea that meets on important issue or on important approaches or on use of a particular tool or towards satisfying particular applications.



Fig. 1: Artificial Intelligence

The central issue of AI research involved reasoning, knowledge, natural language processing, acuity & ability to step & manipulate system. Universal intelligence is some area big term aim. Approaches involved statistical methods, computational intelligence, soft computing & traditional symbolic AI. Some approach is used in AI, involved type of search & mathematical development methods explain on probability & economics. AI field draws upon computer science, mathematics, psychology, linguistics, philosophy, neuroscience & artificial psychology.

## II. APPLICATIONS OF AI

A. AI had been dominant in various fields such as

### 1) Gaming

AI plays vital position in strategic games like as chess, poker, tic-tac-toe, etc., where machine could think of big number of possible positions based on heuristic knowledge.

### 2) Natural Language Processing

It is potential to interact within computer that understands natural language spoken by humans.

### 3) Systems of Expert

Some system which assimilate machine, software & particular information to impart reasoning & advising. They have describe & advice to client.

### 4) Vision Systems

These systems understand, interpret, & comprehend visual input on computer. For example,

- A spying aero plane takes photographs, which are used to figure out spatial information or map of areas.
- Doctors use clinical expert system to diagnose patient.
- Police use computer software that could recognize face of criminal within stored portrait made by forensic artist.

### 5) Speech Recognition

Some systems are dever of comprehending & hearing & language in terms of decree & their meanings while a human discuss to it. It could handle different accents, noise in background, change in human's noise due to cold, etc.

### 6) Handwriting Recognition

This system reads text written on paper on screen by a stylus. It could recognize shapes of letters & convert it into editable text.

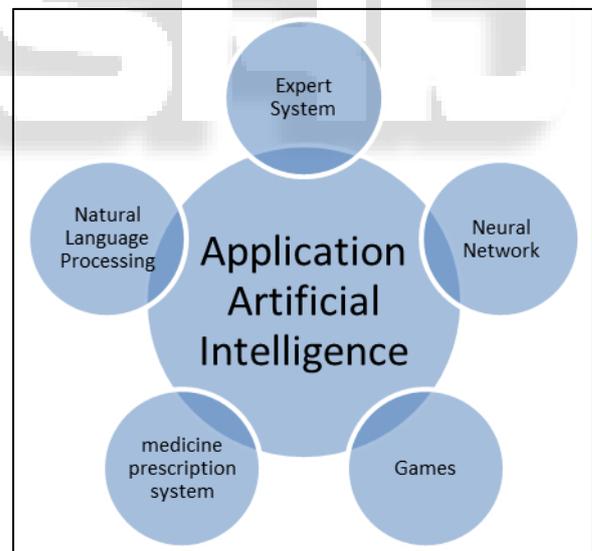


Fig.2: Applications Artificial Intelligence

### 7) Intelligent Robots

Robots are able to perform tasks given by a human. They had sensors to notice physical data from real world like as light, movement, sound, bump, & pressure. They are capable of learning from their mistakes & they could adapt to latest environment.

### III. LITERATURE REVIEW

#### A. Monica Adya, S 2000, Data Mining in fitness Care: Issues & a Scanner Agenda

While data mining had become a a great deal -lauded tool in commerce & related fields its role in health hcare arena is still being explored. Currently most applications of data mining in healthcare could be categorized into two areas decision support for clinical practice, & policy planning/decision making. In spite of this it is not easy to found empirical copy in this located year a substantial total of existing work in data mining for health care is conceptual in nature. This is a a paper we review challenges that edge progress made in this located & today considerations for yet to come of data mining in healthcare .

B. V.Ramesh, August-(2011) Performance Analysis of Data Mining Techniques for Placement Chance Prediction Predicting presentation of a student is a best concern to biggest education managements. Scope of this paper is to investigate accuracy of data mining techniques in such an environment. First step of study is to gather student's data. Collection records were made of 300 Under Graduate students of computer science course, from private Educational Institution. Second step are to clean data & choose relevant attributes. In third step, Naive Bays Simple, Multi-Layer Perception Social Media Optimization J48 rapture algorithms were constructed & their performances were evaluated.

#### C. David J. & Jennifer N. Data Mining in Social Net in 2012

Some techniques for learning arithmetical models have been urbanized recently by researchers in machine education & data mining. Each all of these secrets must address a similar set of representational algorithmic choices & must face a set of statistical challenges unique to learning from relational data. However, little this work had been made good use of research in other areas, such as social network analysis & statistics. Cross-disciplinary efforts & joint research efforts should be encouraged to promote rapid development & dissemination of useful algorithms & data representations.

#### D. Neelamadhab June (2012) Survey of Data Mining Applications & Feature Scope

This review would be helpful to researchers to focus on various issues of data mining. Most of previous studies on data mining applications in various fields use variety of data types range from text to images & stores in variety of databases & data structures. Another methods of data mining are help to extort patterns & thus knowledge from this variety databases. Selection of data & methods for data mining is an important task in this process & needs knowledge of domain. A number of attempts have been made to plan & develop generic data mining scheme but no system find completely generic.

### IV. DATA MINING TO PREDICT PATIENT POPULATION RISK

The second initiative involves applying predictive algorithms to EDW data to predict risk within certain populations. This process of stratifying patients into high-, medium- or low-risk groups is key to success of any population health management initiative.

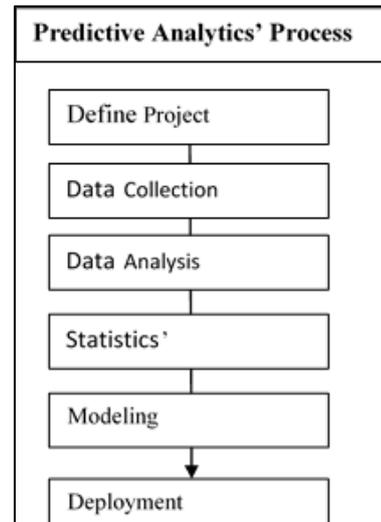


Fig. 3: Data Mining to Predict Patient Population Risk

Fascinatingly, some tolerant carry so much problem that it would be cheaper to preemptively send a physician out to make a house call rather than waiting for that patient to come in for a crisis appointment or emergency room visit. Clinic needed to be able to identify these high-risk patients ahead of time & focus appropriate resources on their care.

### V. BIG DATA IN HEALTH INFORMATICS

The term Big Data is a vague term within a definition that is not universally agreed upon. According to, a rough definition would be any data that is around a pet byte or more in size.

In Health Informatics research Big Data of this volume is fairly rare a more surrounding definition would be used here to incorporate more studies, specifically a definition by Demchenko et al.

### VI. HEALTH CARE DELIVERY

The freedom of modern health worry depends on piece of trained professionals & paraprofessionals coming as one as interdisciplinary team. This Comprise professionals in medicine, psychology, physiotherapy, midwifery & allied health, plus many others such as public health practitioners, community health workers & assistive personnel, who systematically provide personal & population-based preventive, curative & rehabilitative care services.

### VII. OBJECTIVES OF RESEARCH

- 1) To Develop a system where patients from different location could log in to health care center for services for medicine prescription
- 2) Record must be maintained at Centralized Data Ware House.
- 3) The Retrieval of Data must be fast.
- 4) To Provide secure access to Patient.
- 5) To Avail Backup.
- 6) Applying Clustering Mechanism for Faster Data Access.

### VIII. FUTURE SCOPE

The main aim of our research is to use data mining in Health care system. Internet of Things concept arises from need to

manage, automate, & explore all devices, instruments, & sensors in world. Data mining involve discovering novel, attractive & potentially useful models from folder & applying algorithms to retraction of hidden information.

The quantity & quality of many health care interventions are improved through results of science, such as advanced through medical model of health which focuses on eradication of illness through diagnosis & effective treatment. Many important advances had been made through health research, including biomedical research & pharmaceutical research, which form basis for evidence-based medicine & evidence-based practice in health care delivery. In addition, results of health services research could lead to greater efficiency & equitable delivery of health care interventions, as advanced through social model of health & disability, which emphasizes societal changes that could be made to make population Results from health services research often form basis of evidence-based policy in health care systems. Health services research is also aided by initiatives in field of AI for development of systems of health assessment that are clinically useful, timely, sensitive to change, culturally sensitive, low burden, low cost, involving for patient & built into standard procedures.

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