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RESEARCH ARTICLE

Health Prediction in Astrology using Data Mining Techniques

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Abstract

Astrology is a traditional science which is widely used in India especially in Kerala. In the old era the astrology was only considered along with the Hindu mythology. But now people from different religious beliefs also follow the astrology. The reason is the people's curiosity to know about the life before the birth and the things that may happen in the future. For the prediction, the astrologers use the horoscope of a person. Horoscope is a chart which shows the positions of the planets at the time of birth. The birth chart is divided into twelve houses. Each house may or may not carry a single or combination of planets. Each house is dedicated for different significations. For example the eighth house indicates the health, death, disease, mental pain etc. In Kerala when a baby is born, the very next time the believers will write the horoscope of that baby with the help of a professional astrologer. At present, the creation of horoscope and all predictions are done manually by the conventional astrological tools. But it leads to decrease the authenticity of the traditional science. This paper deals with the prediction of a human's health by studying the eighth house of the horoscope with the help of data mining techniques like classification, clustering, rule based analysis etc. The data mining techniques are scientifically proved and if it is possible to implement these techniques for astrological prediction then it will increase the credibility of astrology.

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Introduction:-

Astrology:-

Universe is the combination of happiness and sorrows. The happiness and sorrows happening from the birth to death of a person depends on the position of planets at his birth time. The health and wealth of a person also depends on the effect of planets (Navagraha) which are situated in the "Jyothischakra". This phenomenon is also being the reason for the world's changes and even the climate changes. That is why people believe that the life events should start with good time called "Subhamuhoortham".

Astrology is the traditional science of predicting the good and bad things happening in the world by calculating the position of planets. Also astrology is the study of finding the relation between microcosms (Human) and macrocosms (planets). Astrology has six chapters like "Jadhakam, Golam, Nimitham, Prasnarn, Muhoortham and Ganitham" Also the "Subhamuhoortham" means the time in which the planets located in the good locations. Events happening in this time will be a success. The astrological predictions are based on the nine planets called as "Navagraha" includes Sun, Moon, Mars, Mercury, Jupiter, Venus, Saturn, Rahu (North node) and Kethu (South node).

The astrological chart is the basic document which is used for the prediction. It is the equally partitioned twelve houses called 'Rasi'. They are named as Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius,

Capricorn, Aquarius, and Pisces. All the nine planets and twenty seven stars are located in either one of the twelve houses.

In India, sixty percentages of people are the followers of astrology from the birth to death. They believe that astrology can solve the confusions in their life. The publications related to astrology in popular magazines shows the accessibility of this traditional science in common people. If we consider the successful persons around different areas like politics, science, arts etc all are the followers of astrology. University Grants Commission and ministry of Human Resource Department has approved Vedic astrology as a discipline of study in universities.

Data mining:-

Data mining has a great importance in information analysis. The goal of data mining is to retrieve information and hidden facts from huge data sets. Two types of data mining tasks are there: one is descriptive data mining and another one is predictive data mining. Descriptive mining focus on the general properties of data using Clustering, Association rules or sequence discovery techniques. In predictive mining, the current data set is used for the prediction by applying classification, regression or time series analysis techniques. This will help to solve several problems in different fields such as medicine, business, education, security, astrology and many more.

In this paper, efforts have been taken to identify the scientific basis using various classification and prediction techniques in data mining. These techniques will automatically perform the analysis of data. By applying different learning techniques on large amount of data available for the planetary position of the person, a system which can predict on various aspects of human life can be developed.

Methodology:-

In the horoscope of person there are twelve houses. The nine planets will be situated in either one of the twelve houses. In horoscope there will be a key factor called it as “Lagnam”. It is the time in which the new born baby’s contact with the earth. That is Lagnam is the name of Rasi (sign) which rises in the sky at the time of one’s birth. If Aries is the name of Rasi which is raised at the time of birth then the lagnam will be Aries. Based on this Lagnam we can find out twelve Bhavas and each Bhava has its own significance. If Aries is the lagnam then the First Bhava is Aries, second one is Taurus, third one is Gemini and so on. The nine planets are classified in to two groups like Good planets and Bad Planets depend on their nature. Moon, Mercury, Venus and Jupiter are belongs to the group Good planets because they offer good things for human beings. The rest of the planets are Bad planets and they negatively affect the human life.

For this work data of 100 persons were collected. Sample contains both male and female. The information like date of birth, time of birth, place of birth and the overall health condition are collected. By using the date of birth, place of birth and time of birth we can generate their horoscope. By using this horoscope we can collect the data relevant to our study. In astrology, the health of a person is predicted by analysing the eighth house and the presence of planets in the eighth house, because the eighth house signifies the health, death, diseases, mental pain etc.

The attributes used for the study are as follows.

Table 1: Attributes list

A t t r i b u t e	T y p e	V a l u e
L a g n a m	N o m i n a l	V a l u e f r o m 1 t o 9
E i g h t h H o u s e	N o m i n a l	V a l u e f r o m 1 t o 9
S u n	N o m i n a l	V a l u e f r o m 1 t o 1 2
M o o n	N o m i n a l	V a l u e f r o m 1 t o 1 2
M a r s	N o m i n a l	V a l u e f r o m 1 t o 1 2
M e r c u r y	N o m i n a l	V a l u e f r o m 1 t o 1 2
V e n u s	N o m i n a l	V a l u e f r o m 1 t o 1 2
J u p i t e r	N o m i n a l	V a l u e f r o m 1 t o 1 2
S a t u r n	N o m i n a l	V a l u e f r o m 1 t o 1 2
R a h u	N o m i n a l	V a l u e f r o m 1 t o 1 2
K e t u	N o m i n a l	V a l u e f r o m 1 t o 1 2
C l a s s	N o m i n a l	G o o d a n d B a d

Experimental Analysis:-

Data collected from the 100 persons are loaded to the WEKA tool (Waikato Environment for Knowledge Analysis). WEKA is a popular suite of machine learning software written in Java. By using WEKA, we can either directly apply the algorithm to the dataset or called from our own java code. In WEKA, there are different tools for data pre processing, classification, regression, clustering, association rules and visualization.

After loading the dataset to the WEKA, the different algorithms like J48,J48 graft, NB tree (Naive- Bayes), Random forest are applied and find out the different models built up from the input.

Results:-

Training set size	Algorithm	Accuracy (%)
1 0 0	J 4 8	8 1 . 2 5
1 0 0	J 4 8 g r a f t	8 1 . 2 5
1 0 0	N B t r e e	8 1 . 2 5
1 0 0	R a n d o m F o r e s t	9 3 . 7 5

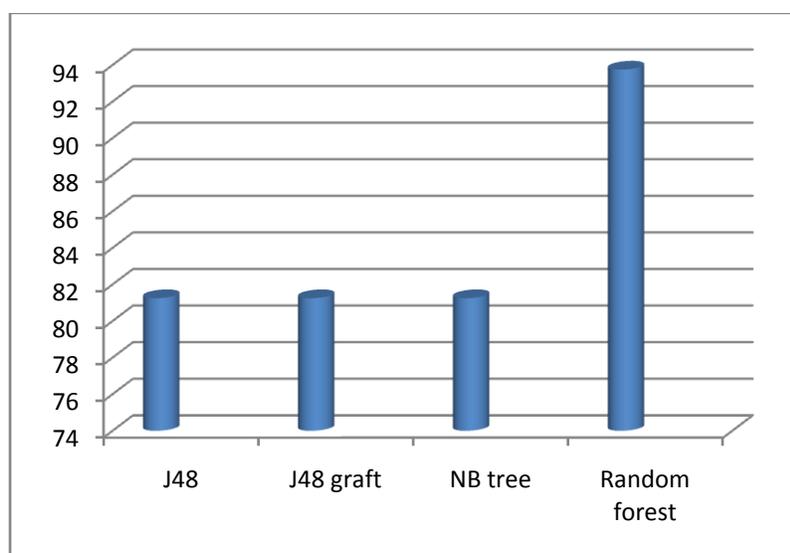


Fig: Graph for accuracy of different algorithms applied on the dataset.

Conclusion and future work:-

By analysing the sample and applying the different data mining algorithms, we can correctly classify and predict the health of a human being. This type of application of data mining aids on the conventional systems will tremendously improve the credibility of traditional science like astrology. When we go through the results the j48, j48 graft and naïve, Bayes algorithm shows 81.25% accuracy and the Random forest algorithm shows 93.75% accuracy. The results are above the expectations and most encouraging for the future work.

In this study, we are only considering four algorithms. May be some other tools can give more accuracy. Also here we are considering only the health factors, the other factors like death, marriage life, financial status, job etc. can be included under this study.

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