**Literature Review**

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| **Team Name** | **CDS 15** |
| **Project Topic Title** | **Disease Prediction System Using Machine Learning** |

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| **1** |
| **Reference in APA format** | |  | | | | |
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| https://scialert.net/fulltext/fulltextpdf.php?pdf=ansinet/itj/2012/1166-1174.pdf | | K.M. Al-Aidaroos, A.A. Bakar and Z. Othman | | | Data mining,classisfication,medical data,naïve bayes | |
| **The Name of the Current Solution (Technique/ Method/ Scheme/ Algorithm/ Model/ Tool/ Framework/ ... etc )** | | **The Goal (Objective) of this Solution & What is the problem that need to be solved** | | | **What are the components of it?** | |
| Naïve Bayes Classifier Algorithm | | Aim is to compare Naïve Bayes algorithm with five popular algorithms on 15 medical data sets. | | | The Author reviewed the current state of medical data mining from different perspectives.Naive Bayes classification approach has been discussed and its main features are highlighted based on the medical mining requirements. | |
| **The Process (Mechanism) of this Work; Means How the Problem has Solved & Advantage & Disadvantage of Each Step in This Process** | | | | | | |
| Here the author compared Naïve Bayes algorithm with five popular algorithms on 15 medical data sets. The selected algorithms include Logistic Regression,Kstar,Decision Tree,Neural Network and simple rule based algorithm. Since NB has been widely critized due to its unrealistic independence assumption and as hybridization is widely used our main direction for future work is to investigate hybridization of NB and propose new algorithm.   |  |  |  |  | | --- | --- | --- | --- | |  | **Process Steps** | **Advantage** | **Disadvantage (Limitation)** | | **1** | Different Algorithms have different level of performance for different set of data. | Here the author compared Naïve Bayes algorithm with five popular algorithms on 15 medical data sets. The selected algorithms include Logistic Regression,Kstar,Decision Tree,Neural Network and simple rule based algorithm. | NB has been widely critized due to its unrealistic independence assumption and as hybridization is widely used our main direction for future work is to investigate hybridization of NB and propose new algorithm. | | **2** | Medical data mining with NB.  Empirical Comparision |  |  | | | | | | | |
| **Major Impact Factors in this Work** | | | | | | |
| <Find all main factors and variables that are related to each solutions. Then find the relationship between factors. (Independent variable) causes a change in (Dependent Variable) and it isn't possible that (Dependent Variable) could cause a change in (Independent Variable).   |  |  |  |  | | --- | --- | --- | --- | | **Dependent Variable** | **Independent Variable** | **Moderating variable** | **Mediating (Intervening ) variable** | |  |  |  |  | | | | | | | |
| |  | | --- | | **Relationship Among The Above 4 Variables in This article** | |  | | | | | | | |
| **Input and Output** | | | **Feature of This Solution** | | | **Contribution & The Value of This Work** |
| |  |  | | --- | --- | | **Input** | **Output** | | Comparision of data sets. | NB is considered best choice because of ots simplicity,explanation capability and efficiency | | | | Developing manually wriiten algorithm for medical mining purposes | | | Good to have this knowledge from this paper as we reviewing of all the basic algorithms under data mining filter designing rules. |
| **Positive Impact of this Solution in This Project Domain** | | | | **Negative Impact of this Solution in This Project Domain** | | |
| Machine learning algorithms are big channelings in the current research and eyeing this area makes sense win right direction. | | | | **Since this is a performance evaluation of various algorithms, not much to project on negative side as all the things used are defined in advance.** | | |
| **Analyse This Work By Critical Thinking** | | | **The Tools That Assessed this Work** | | | **What is the Structure of this Paper** |
| This work is good, as they tried to give acknowledgement of different algorithms by comparing them | | | Scialert | | | Abstract   1. Introduction 2. Background of Medical data Application. 3. Naïve Bayes 4. Empirical Comparision 5. Experimental evaluation 6. Conclusion Future work |
| **Diagram/Flowchart/Table** | | | | | | |
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**---End of Paper 1-**

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| **2** |
| **Reference in APA format** | |  | | | | |
| **URL of the Reference** | | **Authors Names and Emails** | | | **Keywords in this Reference** | |
|  | | Darcy A. Davis, Nitesh V.Chawla, Nicholas Blumm | | | Collaborative filtering, Disease risk, Ensemble, Health care | |
| **The Name of the Current Solution (Technique/ Method/ Scheme/ Algorithm/ Model/ Tool/ Framework/ ... etc )** | | **The Goal (Objective) of this Solution & What is the problem that need to be solved** | | | **What are the components of it?** | |
| Predicting Individual Disease risk based on medical history | | The goal of our work was to come up with a system that can assist a medical practitioner in decision making. If a sampling of future diagnoses can be provided to a practitioner, appropriate medical tests can be ordered sooner and lifestyle adjustments can be adopted by the patient proactively | | | Handling data with noise  Spam based data testing with the hybrid classifier  Prediction right cases and finding the defined classes for the same. | |
| **The Process (Mechanism) of this Work; Means How the Problem has Solved & Advantage & Disadvantage of Each Step in This Process** | | | | | | |
| |  |  |  |  | | --- | --- | --- | --- | |  | **Process Steps** | **Advantage** | **Disadvantage (Limitation)** | | **1** | Demographic Experiments | The demographics explored were age, gender, and race. The specific categories include both genders, 5 racial groups, and 7 age groups spanning 5 years each. We partitioned the training and testing sets based on the considered demographic categories. New experiments were run on each partition of the testing set using the corresponding training set | It is an assumption ,where currently it is been testing . | | **2** | CARE Performance | The idea is that on round i, the algorithm ‘knows’ all diagnoses up through visit i, and is evaluated on ability to predict diagnoses which occur in visits i + 1 and on | The predictions were generated on the future visits of a patient. Since the order of disease occurrence is necessary for making meaningful predictions | | | | | | | |
| **Major Impact Factors in this Work** | | | | | | |
| |  |  |  |  | | --- | --- | --- | --- | | **Dependent Variable** | **Independent Variable** | **Moderating variable** | **Mediating (Intervening ) variable** | |  |  |  |  | | | | | | | |
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| **Input and Output** | | | **Feature of This Solution** | | | **Contribution in This Work** |
| |  |  | | --- | --- | | **Input** | **Output** | | relies only on a patient’s medical history | Predicts the future diseases risks | | | | These novel systems require no specialized information and provide predictions for medical conditions of all kinds in a single run. We present experimental results on a Medicare dataset, demonstrating that CARE and ICARE perform well at capturing future disease risks | | | This research seeks to aid the development of a predictive system by examining the use of medical history to examine information about disease correlations and inexpensively assess risk |
| **Positive Impact of this Solution in This Project Domain** | | | | **Negative Impact of this Solution in This Project Domain** | | |
| Early disease prediction which helps in preventing the diseases | | | | **The predictions might not be accurate in some cases** | | |
| **Analyse This Work By Critical Thinking** | | | **The Tools That Assessed this Work** | | | **What is the Structure of this Paper** |
| Logically this is a good step that helps in detecting the disease in the early stages of life | | | Scialert | | | Abstract   1. Introduction 2. Related Work 3. Proposed Method 4. Experiment Results 5. Conclusion |
| **Diagram/Flowchart** | | | | | | |
| C:\Users\Danish\Desktop\WhatsApp Image 2023-10-24 at 6.11.06 PM.jpegWhatsApp Image 2023-10-24 at 6.11.06 PM | | | | | | |

**--End of Paper 2--**

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| **3** |
| **Reference in APA format** | |  | | | | |
| **URL of the Reference** | | **Authors Names and Emails** | | | **Keywords in this Reference** | |
|  | | Sarthak Khurana, Atishay Jain, Shikhar Kataria, Kunal Bhasin, Sunny Arora | | | Logistic Regression, Decision tree, Random Forest, Naive Bayes Algorithm, Python | |
| **The Name of the Current Solution (Technique/ Method/ Scheme/ Algorithm/ Model/ Tool/ Framework/ ... etc )** | | **The Goal (Objective) of this Solution & What is the problem that need to be solved** | | | **What are the components of it?** | |
| Disease Prediction System | | Aim is to build a logistic regression model with the help of machine learning algorithms like decision tree, random forest and naïve Bayes. | | | Naive Bayes which take into account the symptoms felt by person for this we are using python as a platform to run our machine learning algorithms. | |
| **The Process (Mechanism) of this Work; Means How the Problem has Solved & Advantage & Disadvantage of Each Step in This Process** | | | | | | |
| |  |  |  |  | | --- | --- | --- | --- | |  | **Process Steps** | **Advantage** | **Disadvantage (Limitation)** | | **1** | Data collection, Preparing the data, Training a model, Evaluating the model, Improving the performance | This are used to validate the accuracy, miss classification, True positive rate, False positive rate by actual values and predicated values. ROC curve determine sensitivity and specificity. | But it’s highly unlikely to memorize all the knowledge, patient history, records needed for every situation. It’s difficult to compare and analyse the symptoms of all the diseases and predict the outcome. |   . | | | | | | |
| **Major Impact Factors in this Work** | | | | | | |
| |  |  |  |  | | --- | --- | --- | --- | | **Dependent Variable** | **Independent Variable** | **Moderating variable** | **Mediating (Intervening ) variable** | |  |  |  |  | | | | | | | |
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| **Input and Output** | | | **Feature of This Solution** | | | **Contribution & The Value of This Work** |
| |  |  | | --- | --- | | **Input** | **Output** | | We take five symptoms from the patient | Finding a disease which a person is suffering from depending upon the symptoms he or she is suffering and evaluate by using algorithms such as Random Forest , Decision Tree, Naïve Bayes. | | | | To facilitate coordinated and well-informed health care systems capable of ensuring maximum patient satisfaction. | | | Good to have this knowledge from this paper as we reviewing of all the basic algorithms like Random Forest,Decision Tree,Naïve Bayes. We can get to become higher knowing and can get to assume a lot of responsibility for our own care, if we are to make use of the information derived. |
| **Positive Impact of this Solution in This Project Domain** | | | | **Negative Impact of this Solution in This Project Domain** | | |
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| **Analyse This Work By Critical Thinking** | | | **The Tools That Assessed this Work** | | | **What is the Structure of this Paper** |
| These work is useful, as these Health and Medicare units can use these predictive models to accurately assess when a patient can safely be released. | | | IRJET | | | Abstract   1. Introduction 2. Analysis 3. Proposed Work with results 4. Proposed Methodology 5. Conclusion and Future work |
| **Diagram/Flowchart** | | | | | | |
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**--End of Paper 3--**

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| **Version 2.0 Week 2** | | | | | | |
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| **Positive Impact of this Solution in This Project Domain** | | | | **Negative Impact of this Solution in This Project Domain** | | |
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| **Analyse This Work By Critical Thinking** | | | **The Tools That Assessed this Work** | | | **What is the Structure of this Paper** |
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| **Diagram/Flowchart** | | | | | | |
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| **Version 3.0 Week 3** | | | | | | |
| **9** |
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| **10** |
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| **11** |
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| |  |  |  |  | | --- | --- | --- | --- | |  | **Process Steps** | **Advantage** | **Disadvantage (Limitation)** | | **1** |  |  |  | | **2** |  |  |  | | **3** |  |  |  | | **4** |  |  |  | | **5** |  |  |  | | | | | | | |
| **Major Impact Factors in this Work** | | | | | | |
| |  |  |  |  | | --- | --- | --- | --- | | **Dependent Variable** | **Independent Variable** | **Moderating variable** | **Mediating (Intervening ) variable** | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | | | | |
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| **Input and Output** | | | **Feature of This Solution** | | | **Contribution & The Value of This Work** |
| |  |  | | --- | --- | | **Input** | **Output** | |  |  | | | |  | | |  |
| **Positive Impact of this Solution in This Project Domain** | | | | **Negative Impact of this Solution in This Project Domain** | | |
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| **Analyse This Work By Critical Thinking** | | | **The Tools That Assessed this Work** | | | **What is the Structure of this Paper** |
|  | | |  | | |  |
| **Diagram/Flowchart** | | | | | | |
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| **Version 4.0 Week 4** | | | | | | |
| **13** |
| **Reference in APA format** | |  | | | | |
| **URL of the Reference** | | **Authors Names and Emails** | | | **Keywords in this Reference** | |
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| **The Name of the Current Solution (Technique/ Method/ Scheme/ Algorithm/ Model/ Tool/ Framework/ ... etc )** | | **The Goal (Objective) of this Solution & What is the problem that need to be solved** | | | **What are the components of it?** | |
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| **Major Impact Factors in this Work** | | | | | | |
| |  |  |  |  | | --- | --- | --- | --- | | **Dependent Variable** | **Independent Variable** | **Moderating variable** | **Mediating (Intervening ) variable** | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | | | | |
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| **14** |
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| **Major Impact Factors in this Work** | | | | | | |
| |  |  |  |  | | --- | --- | --- | --- | | **Dependent Variable** | **Independent Variable** | **Moderating variable** | **Mediating (Intervening ) variable** | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | | | | |
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| **15** |
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**Work Evaluation Table**

**<Use the same factors you have used in "Work Evaluation Table" to build your own "Proposed and Previous comparison table ">**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Work Goal** | **System's Components** | **System's Mechanism** | **Features /Characteristics** | **Cost** | **Speed** | **Security** | **Performance** | **Advantages** | **Limitations /Disadvantages** | **Platform** | **Results** |
| **Author Name and Year** |  |  |  |  |  |  |  |  |  |  |  |  |
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