# The Crux of Classification and its need to the new generation students for there daily life

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*Abstract*— The purpose of writing this report is not only for any library. A suggestion based on the daily and future life needs of today's students or the new generation. Trying to discipline their future life. But the entire text is based on library principles of Dr. B. Ranganathan, the father of library science. These five (5) principles are:

Books are for use.

Every person his or her book.

Every book its reader.

Save the time of the reader.

A library is agrowing organism.

According to this principle it is possible to find or help the reader to find the required book among millions of books within a short period of time and this work is only possible if the library is organized. To comply with this rule, I want to follow several principles of library science. Only then will success come.

*Index Terms*— Classification , DDC , AI, Machine learning , Supervised learning, Reinforcement learning.

### I. INTRODUCTION

The lifestyle of today's children or students is quite messy - irregular and untidy. Where we often notice the coexistence of forks and spoons, socks, hats, and mosquito nets with books left on the table. And the job of parents is to put these messy things in the right place. It is clear from their faces that they are very unhappy with this job. This messy habit now affects their future life a lot. Our mothers and aunties keep all the items in the kitchen neatly arranged. Salt Yellow Mustard Greens ... Don't keep surf or baking pan with the cuto. So that you can easily get the useful material at hand in an instant. The same is called Classification. means arrangement Literally / grouping classification. Keeping items of the same category neatly arranged in one place. The

neater and neater this arrangement becomes, the easier it is to find each item. None of us leave the bedroom

or the kitchen to find a daily face wash brush or toothpaste. It is always kept in a fixed place near the basin. We keep our clothes in closets or clothes racks. Likewise, there is no need to search for hassle or frustration when every essential item is secured in a specific place. If there is a slight deviation, the stress increases. Due to not getting the necessary thing resentment also accumulates in the mind. The importance of proper arrangement is immense. Therefore, this report is for developing a correct idea about the classification of the new generation of students. Today's engineering or medical students may not be librarians in the future, but this taxonomy concept will streamline their daily lives

#### **II. METHODS & DISCUSSION**

For example: A specific book can be discussed from a library. The reader comes to the library and wants to get a particular book. In this case, if the required book is not available for a long time, then it is natural for the reader to become reluctant towards the library. That reader no longer wants to come to the library. Gradually he turned away from the library. But the work of the librarian or all the library staff is to make the people against the library open to the library. Gradually he turned away from the library. But the work of the librarian or all the library staff is to make the people against the library open to the library. Serving them all in different ways. book for every reader according to Dr. Ranganathan's declared principles. So a simple idea can be given about how a librarian keeps the thousands or lakhs of books in a library neatly arranged. First: If the library is for the public, it has a variety of books. This 'type' should be selected first or example in a general library (category wise)- Puran/Religious , Texts/Poems/Story Novels/ Dramas/Poems/Rhymes/TextBooks/Essays/Physical/ Letters/Autobiographies/Newspapers/Political Books... There are various kinds of books like etc.

Now let's choose a textbook from the above classification to try to get a little deeper.

Textbooks need to be shared first. Children's elementary school books or secondary high school or college level?

I am choosing the "College" level to facilitate the discussion.

Many of the college students share :-

Pure Science/ Arts/ Commerce/ Vocational/ Medical/ Engineering. etc.

Among all these trades only "Engineering" is discussed. There are also many branches - Civil/ Mechanical/ Electrical/ Computer Science/ IT/ Electronics. etc.

I'm only highlighting "Computer Science" for the sake of going deeper. After completing the first two semesters of Computer Science students - Physics, Chemistry, Mathematics (applicable to all engineering students at all levels), six more semesters of computer related books are required : Big Data, Cyber Security, Artificial Intelligence, Data Science, Network Security, Networking, Software Engineering, Information Coding, Multimedia, Digital, Digital Forensic, Quantum Computing, Computer Vision, Digital Image Processing etc. Now, We are highlighting on "Artificial Intelligence" (AI). There are some other AI related books like Machine Learning, Pattern Recognition, Deep Learning, N L P (Natural Language Processing), Expert System, Robotics, Soft Computing etc. Now, "Machine Learning" can be divided into three process: Supervised Learning, Unsupervised Learning, Reinforcement.

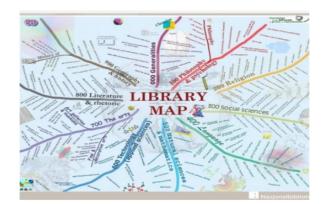
"Supervised Learning" can be divided into latest division: Linear Regression, Nonlinear Regression, Regression Trees, Bayesian Regression.

A Regression Tree refers to an algorithms where the target variable is and therefore the algorithms is employed to predict it's value.

It can be used to predict the relationship between reckless driving and the total number of road accident caused by a driver or to use a business example, the effect of sales and spending a certain amount of money on advertising. Or to predict the selling price of a residential house; which may be a continuous variable. Decision Trees are reliable and effective decision making technique that provide high classification accuracy in different areas of medical decision making like to predict of heart disease, to predict Cancer CT Scan, MRI etc are used as Regression Trees.

Decision Tress for health care analysis are the most widely used machine learning algorithms used for both classification and Regression Trees.

No farther division is not possible at this time. This may be possible in future. Split Regression will find it's place that day. Keeping this possibility in mind, the later place has been left. Finally, there is no mention of Linear and Bayesian in DDC; On which the whole library classification stands in the World. They have space to assign classification numbers according to new discovered process. The way all the books are neatly arranged in the library is given in the form of chalk in the picture attached in next page:



Summaries :

First Summary : The Ten Main Classes-

000 Computer science, information & general works

100 Philosophy & psychology

200 Religion

300 Social sciences

400 Language

500 Science

600 Technology

700 Arts & recreation

800 Literature

900 History & geography

Second Summary : The Hundred Divisions-

000 Computer science, knowledge & systems

010 Bibliographies

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020 Library & information sciences 360 Social problems & social services 030 Encyclopedias & books of facts 370 Education 040 [Unassigned] 380 Commerce, communications & transportation 050 Magazines, journals & serials 390 Customs, etiquette & folklore 060 Associations, organizations & museums 400 Language 070 News media, journalism & publishing **410 Linguistics 080** Quotations 420 English & Old English languages 090 Manuscripts & rare books 430 German & related languages 100 Philosophy 440 French & related languages 110 Metaphysics 450 Italian, Romanian & related languages 120 Epistemology 460 Spanish & Portuguese languages 130 Parapsychology & occultism 470 Latin & Italic languages 140 Philosophical schools of thought 480 Classical & modern Greek languages 150 Psychology 490 Other languages 160 Logic 500 Science 170 Ethics 510 Mathematics 180 Ancient, medieval & eastern philosophy 520 Astronomy 190 Modern western philosophy 530 Physics 200 Religion 540 Chemistry 210 Philosophy & theory of religion 550 Earth sciences & geology 220 The Bible 560 Fossils & prehistoric life 230 Christianity & Christian theology 570 Life sciences; biology 240 Christian practice & observance 580 Plants (Botany) 250 Christian pastoral practice & religious orders 590 Animals (Zoology) 260 Christian organization, social work & worship 600 Technology 270 History of Christianity 610 Medicine & health 280 Christian denominations 620 Engineering 630 Agriculture 290 Other religions 300 Social sciences, sociology & anthropology 640 Home & family management **310 Statistics** 650 Management & public relations 320 Political science 660 Chemical engineering 330 Economics 670 Manufacturing 340 Law 680 Manufacture for specific uses 350 Public administration & military science 690 Building & construction

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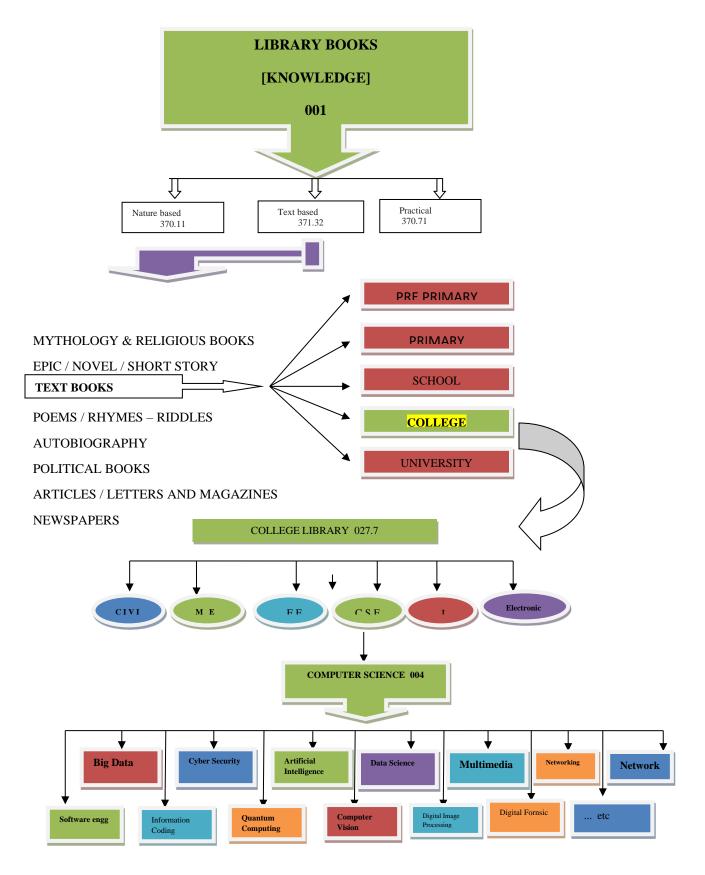
700 Arts	004 Data processing & computer science
710 Landscaping & area planning	005 Computer programming, programs & data
720 Architecture	006 Special computer methods
730 Sculpture, ceramics & metalwork	007 [Unassigned]
740 Drawing & decorative arts	008 [Unassigned]
750 Painting	009 [Unassigned]
760 Graphic arts	010 Bibliography
770 Photography & computer art	011 Bibliographies
780 Music	012 Bibliographies of individuals
790 Sports, games & entertainment	013 [Unassigned]
800 Literature, rhetoric & criticism	014 Of anonymous & pseudonymous works
810 American literature in English	015 Bibliographies of works from specific places
820 English & Old English literatures	016 Bibliographies of works on specific subjects
830 German & related literatures	017 General subject catalogs
840 French & related literatures	018 Catalogs arranged by author, date, etc.
850 Italian, Romanian & related literatures	019 Dictionary catalogs
860 Spanish & Portuguese literatures	020 Library & information sciences
870 Latin & Italic literatures	021 Library relationships
880 Classical & modern Greek literatures	022 Administration of physical plant
890 Other literatures 900 History	023 Personnel management
910 Geography & travel	024 [Unassigned]
920 Biography & genealogy	025 Library operations
930 History of ancient world (to ca. 499)	026 Libraries for specific subjects
940 History of Europe	027 General libraries
950 History of Asia	028 Reading & use of other information media
960 History of Africa	029 [Unassigned]
970 History of North America	030 General encyclopedic works
980 History of South America	031 Encyclopedias in American English
990 History of other areas	032 Encyclopedias in English
Third Summary : The Thousand Sections-	033 In other Germanic languages
000 Computer science, information & general works	034 Encyclopedias in French, Occitan & Catalan
001 Knowledge	035 In Italian, Romanian & related languages
002 The book	036 Encyclopedias in Spanish & Portuguese
003 Systems	037 Encyclopedias in Slavic languages

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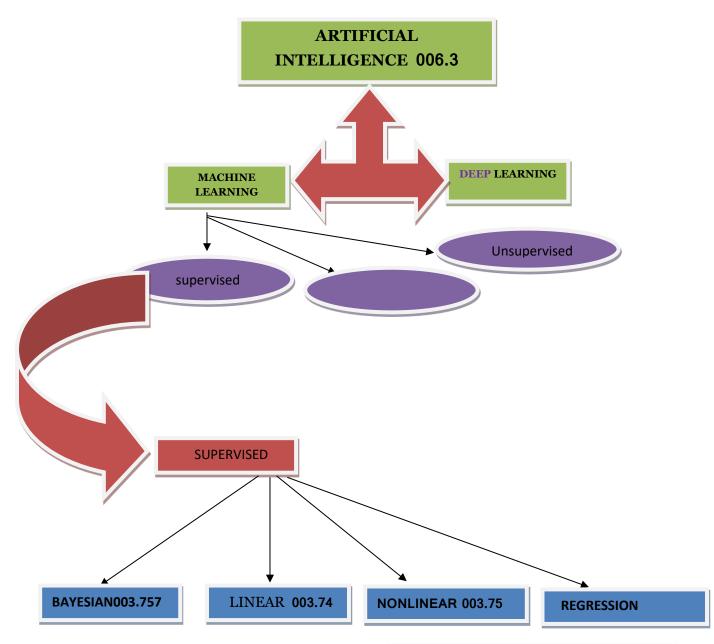
038 Encyclopedias in Scandinavian languages 069 Museum science 039 Encyclopedias in other languages 040 [Unassigned] 041 [Unassigned] 042 [Unassigned] 043 [Unassigned] 044 [Unassigned] 045 [Unassigned] 046 [Unassigned] 047 [Unassigned] 048 [Unassigned] 049 [Unassigned] 050 General serial publications 051 Serials in American English 052 Serials in English 053 Serials in other Germanic languages 054 Serials in French, Occitan & Catalan 055 In Italian, Romanian & related languages 056 Serials in Spanish & Portuguese 057 Serials in Slavic languages 058 Serials in Scandinavian languages 059 Serials in other languages 060 General organizations & museum science 061 Organizations in North America 062 Organizations in British Isles; in England 063 Organizations in central Europe; in Germany 064 Organizations in France & Monaco 065 Organizations in Italy & adjacent islands 066 In Iberian Peninsula & adjacent islands 067 Organizations in eastern Europe; in Russia 068 Organizations in other geographic areas

070 News media, journalism & publishing 071 Newspapers in North America 072 Newspapers in British Isles; in England 073 Newspapers in central Europe; in Germany 074 Newspapers in France & Monaco 075 Newspapers in Italy & adjacent islands 076 In Iberian Peninsula & adjacent islands 077 Newspapers in eastern Europe; in Russia 078 Newspapers in Scandinavia 079 Newspapers in other geographic areas 080 General collections 081 Collections in American English 082 Collections in English 083 Collections in other Germanic languages 084 Collections in French, Occitan & Catalan 085 In Italian, Romanian & related languages 086 Collections in Spanish & Portuguese 087 Collections in Slavic languages 088 Collections in Scandinavian languages 089 Collections in other languages 090 Manuscripts & rare books 091 Manuscripts 092 Block books 093 Incunabula 094 Printed books 095 Books notable for bindings 096 Books notable for illustrations 097 Books notable for ownership or origin 098 Prohibited works, forgeries & hoaxes 099 Books notable

FLOW CHART



**Continuation of the flow chart :** 



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BUIE Bibekananda Goswami

## REFERENCE

- [1] Prolegomena to Library Classification by Dr S. R. Rangathan .
- [2] Library Classification schemes :Facetss ans Analyses by Dr. Abdul Musref Khan
- [3] DDC21 (Volume 1 to 4) Edition -21 Devised by Melvil Dewey