

LEVEL OF UNDERSTANDING OF YOUTH GENERATION ON HINDU RELIGIOUS TEACHING USING FUZZY LOGIC

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ABSTRACT : The rapid development of technology is currently important to study in order to determine the magnitude of the impact of adolescent behavior on the understanding of Hinduism. Therefore, it is necessary to measure the understanding of Hinduism in SMA PGRI 4 and SMK PGRI 5 Denpasar. To determine the level of understanding of Hinduism, observations were made and questionnaires were distributed to respondents. The questionnaire as a tool for collecting data and the method used in measuring the level of students' understanding of Hinduism is the Mamdani Fuzzy Logic method which is implemented through Matlab 6.1 software. The results show that 94% of Hindu youths have a very high understanding of Hindu religious teachings, while 6% have a very low understanding. Using Fuzzy Logic can produce information on understanding Hinduism that is accurate and can be used as an evaluation to improve spiritual and emotional intelligence in the future.

KEYWORDS: *Understanding, Youth, Spiritual Intelligence, Fuzzy Logic*

I. INTRODUCTION

The theory of Artificial Intelligence logic that is used is more practical because it is not difficult, understandable, flexible, and also better. The emergence of logical fuzzy is also closely related in everyday life, which so far many teenagers think that mathematics is not widely used in everyday life. Behavior of Spiritual Intelligence and Emotional Intelligence, namely attitudes that stand out in religious life, believe in the existence of spiritual or supernatural powers that affect life. The embodiment of behavior can be influenced by factors of knowledge, habits, desires, and beliefs. Behavior comes with the transfer of power over behavior that is regulated from within, which is accompanied by a feeling of personal responsibility for one's own actions [1].

He problem of the level of understanding of Hinduism is one of the problems that can be studied through logical fuzzy, because understanding of Hinduism is the essence and existence of Hinduism as a religion whose conditions are flexible. Besides that, not many teenagers know the level of understanding of Hinduism it self because there is no system that can be used as a measuring tool to determine the level of understanding of Hinduism. The author also sees that there are differences in terms of the level of understanding and practice of Hinduism in adolescents.

Therefore, it is necessary to research and develop an Artificial Intelligence technology that can provide the right answer about the correct understanding of Hindu religious teachings in accordance with their teachings, many Hindu youth generations do not understand Hindu religious teachings, especially in everyday life, the younger generation tends to forget. one example to do worship at home is very difficult. Fuzzy logic is a way of mapping the input space into the output space. Logical Fuzzy which uses the concept of vagueness of a value imitates the human way of thinking[2].

Logical Fuzzy uses words that are much closer to human intuition, so that humans feel directly the value of the variable words that are commonly used in everyday life[3]. This research was conducted by providing a link to the Web-based Mamdani method expert system Logical Fuzzy link to students of SMA PGRI 4 Jalan Kenyeri No 27 East Denpasar and SMK PGRI 5 Jalan Kenyeri No 31 East Denpasar. Then it was continued using fuzzy logical set theory and solved by calculating the level of understanding of Hinduism based on Bhagavadgita in the younger generation.

II. RESEARCH METHODOLOGY

Research Location

This research took the location of SMA PGRI 4 Jalan Kenyeri No 27 Denpasar Timur and SMK PGRI 5 Jalan Kenyeri No 31 Denpasar Timur, because these schools are modern schools in the city of Denpasar where many generations of teenagers already understand the importance of using Artificial Intelligence Technology.

Primary Data Collection

To find out the level of understanding of Hinduism, the spread of expert questionnaires is carried out to students of PGRI 4 high school and PGRI 5 Vocational School.

Analysis and Design

Before designing the Fuzzy system model, for the initial stage will be determined the criteria that will be used to find out the understanding of Hinduism to students / students consisting of 5 types of quality dimensions, namely Tangible, Reliability, Responsiveness, Assurance, and Empathy.

To make it easier to understand the analysis and design process carried out in this research, an analysis and design flow diagram is made as in the following figure:

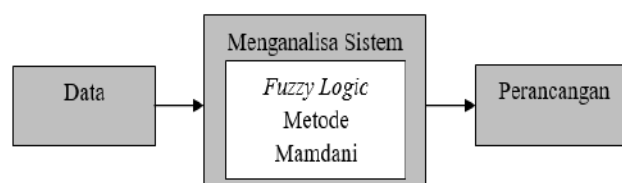


Figure 1. Bagan Flow Analysis and Planning

System analysis in this study using Fuzzy Logic Mamdani method, there are four things to know in fuzzy system, namely Fuzzy variables, Fuzzy sets, speech universes, and domains. The stages of analyzing the system in this study are as follows:

1. Fuzzyfication by determining Fuzzy variables, Fuzzy sets, speech universes, and domains.
2. Form the fuzzy logic rules needed by performing the Fuzzy Inference System (FIS).
3. Processing data with Fuzzy.
 - a. Calculate fuzzy sets.
 - b. Menghitung Defuzzification Centroid.
 - c. Calculate the Defuzzy Weight Average.

In the design of this system there are five input variables, namely: Tangible, Realibility, Responsiveness, Assurance, and Empathy with one output variable, namely the understanding of the younger generation in Hindu teachings. By clicking edit and clicking add input or output variables, then specify the name of the input or output variable used there is the current variable name section.

The ADDIE model is one of the interactive learning processes with basic stages of effective, dynamic and efficient learning. Educational practitioners made several revisions and in the mid-1980s came a more interactive and dynamic model than the original. This model can then be used for a wide variety of forms of product development such as learning strategies and methods, media and teaching materials Florida State University in [4], [5], [6] and [7].

The reason researchers use the ADDIE model is because the procedural stages can be a guideline in building a decent, dynamic, dynamic training or learning program device and infrastructure, supporting the performance of products that researchers will develop for short-term research so that the ADDIE development model matches the products that the researcher will develop and at each stage there is an evaluation. So that researchers develop based on the formulation of the above problems to produce a Fuzzy Expert System that is more detailed and accurate in reading and processing data. The research instruments used are Expert Systems and documents. In quantitative methods, the instrument used is the online Expert System. This online Expert System is used to get data about the generation of adolescents to understand the teachings of Hinduism in everyday life. Online Logica Fuzzy Expert System was chosen because it makes it easy to get data in a short time and respondents in large numbers. The data analyzed in the development of Artificial Intelligence technology related to Hindu teachings and the impact on the generation of Hindu teenagers is quantitative data[8]

III. RESULTS AND DISCUSSION

Intelligence is created and fed into a machine (computer) in order to do the job as humans can. Some fields that use artificial intelligence include expert systems, computer games, Fuzzy Logic, neural networks and robotics. The concept of Fuzzy Logic can be easily found in human behavior in everyday life. One of the gifts of Ida Sang Yang Widi Wasa that is very special and specially given to humans is reason. This ability exists only in humans and becomes the superiority of humans over other creatures. *Bhagavadgita X.2, XII.5* tells many people to always think one of his verses states as follows: As a scripture and instruction, *Bhagavadgita* has various dimensions to be used as a handle on life and guide direction for every Hindu in living his life [9].

The existence of Bhagavadgita as a guide to life for Hindus does not mean denying the role of reason as a means of thought and consideration for humans in living their daily lives. Even further than that, Bhagavadgita actually provides guidance to the human mind to always obey the law and provisions that have been established, as well as to always reflect and think about the existence of Ida Sang Yang Widi Wasa and His creation.

In the book Artificial Intelligence, it has been explained that computers are deliberately made intelligent by experts by mimicking the work of the nervous system in the human brain. The brain is like a processor in a computer's CPU (Central Processing Unit) for the human body. 3) The brain is the only part of the body that is most developed and can automatically learn itself. Both in the form of operating system programs, and various application programs embedded in the computer's CPU (Central Processing Unit). After that, the new computer can function according to the application programs that are already in the computer. The mechanism of work of such a computer, more or less similar to humans and their brains. Of the nine verses above can be interpreted whatever we do in this life contains risks, there is a cause because there is a result of action, there is a reaction[10].

While the various abilities and talents possessed by humans are the application programs of Ida Sang Yang Widi Wasa. So, the basic program in humans is an operating system that is in accordance with the belief in Ida Sang Widi Wasa. With the spirit, the human being in his life is already in the operating system in accordance with the belief in Ida Sang Yang Widi Wasa. The operating system by Ida Sang Yang Widi Wasa is placed in all cells of the human body, from head to toe.

All the potential of life, has operated following the fitrah of Ida Sang Yang Widi Wasa His presence in the human body is called His spirit. The rough body that is a medium of work for humans in *Bhagavadgita XIII.3* is called ksetra and ksetrajna, has a temporary nature, undergoes a slide, and experiences growth. Similarly, a computer cannot live if it is not electrified and also cannot operate if the computer system is not given a basic program or operating system that controls the entire system working computer life.

In other words, even though computer hardware devices have been designed and built to the most advanced specifications, intelligent application software has been inserted into the computer brain, all will not work if the computer is not electrified and does not have a basic program of operation. Electricity and the operating system that will turn on the computer, so that he can behave intelligently like a human being. So, electricity and operating systems can be said to be the source of life for computers[11].

In other words, electricity and the operating system serve as the spirit of the computer. Various operating programs can be inserted into the computer brain so that it can be a smart and intelligent computer and have a variety of skills. Man created Ida Sang Yang Widi Wasase as a creature who is very intelligent and has a mental capacity and mind that is very important in his life, so that he can perform many tasks.

Artificial intelligence is a collection of concepts and ideas related to the development of intelligent systems. Artificial intelligence, also called Artificial Intelligence, is the study of how to make computers do what humans are better at the time. In Artificial Intelligence computers are designed to be intelligent and smart so that they can do the same job and as well as those done by humans, by mimicking some of the functions of the human brain. 2) Computational process impersonation, including systems capable of intelligent computing based on computational intelligence known as fuzzy systems, neural networks, and genetic algorithms. In general, the definition of artificial intelligence can be grouped into four categories, namely: 1) Systems that can think like humans (thinking humanly). 2) A system that can behave like a human (acting humanly). Although artificial intelligence technology has succeeded in making computers smarter and more sophisticated, but to be duplication of the human brain or a substitute for the human brain, computers are still far from the working system of the human brain. The potential value of artificial intelligence can be better understood by comparing it with natural intelligence (Emotional Intelligence, Spiritual Intelligence), which is the intelligence made by Ida Sang Yang Widi Wasa in humans[12]

Artificial intelligence will be permanent as long as the system and the computer program are not changed. However, the knowledge embedded in a computer system can be easily transferred from that computer to another computer. f. Artificial intelligence (Artificial Intelligence) can accomplish certain tasks faster and better compared to natural intelligence (Emotional Intelligence, Spiritual Intelligence). The ability to add or fulfill that knowledge is deeply attached to the human psyche, but with artificial intelligence, to augment artificial knowledge must be built into carefully constructed systems. b. Natural intelligence (Emotional Intelligence, Spiritual Intelligence) allows people to utilize and use experiences of the five senses' responses directly, whereas most artificial intelligence systems must work with symbolic inputs and representations. c. Natural intelligence (Emotional Intelligence, Spiritual Intelligence) can be used widely and infinitely, while artificial intelligence is very limited[13].

Validation of The Development of Emotional Intelligence and Spiritual Intelligence After the Creation of Artificial Intelligence Technology Using Fuzzy Logic Methods, Related to Hindu Teachings Based on Bhagavadgita Reviewed From Expert Validation And Empirical Validation.

When viewed in terms of progressiveness, the generation of Hindu teenagers now can be very superior to artificial intelligence technology as a generation of Hindu teenagers who have the willingness to continue to learn about hindu teachings and develop in this technological era, not far behind. But on the other hand there is general Artificial Intelligence or powerful Artificial Intelligence that will continue to be developed by scientists, where artificial intelligence can learn and can adjust to perform challenges or tasks that require human intelligence. This is an even greater challenge for the current generation of Hindu teenagers. If the current generation of Hindu teenagers, hypnotized with the luxury of technology and have a consumptive pattern without wanting to develop themselves to be far above technology, then the generation of Hindu teenagers themselves will be defeated by artificial intelligence technology and 70 percent of the productive age who in the gadang-gadang will be agents of cultural change will only become technology practitioners and cannot solve the problem of understanding Hinduism and even forget. From the four sloka above it can be concluded that the hindu youth generation must be full of vigor in facing all challenges with passion, with the soul of a knight." the legs are weakened, the lips tremble, and the whole body is calling endlessly" don't we often experience the same thing facing a tough challenge. From the beginning the mind has been chaotic, it has often been chaotic but it used to be not felt, now it feels. Under such circumstances, the legs, arms, hands, whole limbs feel weakened, there is no energy to do something. To avoid making decisions or actions exactly like the arjuna of the teenage generation often seeks justification, looking for scapegoats. The teenage generation must be full of vigor in facing all challenges with passion, with the soul of a knight.

Emotional Intelligence (EQ) and Level of Understanding of Hindu teachings in the Generation of Hindu teenagers based on *Bhagavadgita*

Emotional intelligence is the more ability a person has in self-motivation, resilience in the face of failure, controlling emotions and delaying satisfaction, and regulating the state of the soul [14], [15], [16] and [17]. smrti bhramsad buddhi naso, Good emotional intelligence can be seen from the ability to know oneself, control yourself, motivate yourself, empathize, and social abilities. Therefore, generasi Hindu teenagers who have good emotional skills will succeed in life and have the motivation to continue to learn and easily understand the teachings of Hinduism.

Meanwhile, the generation of Hindu teenagers who have poor emotional skills, will have less motivation to learn and less understanding of Hindu teachings, so it can damage their ability to focus on their daily tasks as a generation of Hindu teenagers. The results of testing the influence of the Emotional Intelligence variable (X2) showed that the significance value obtained was 0.001 which is smaller than the value of $\alpha = 0.05$.

Spiritual Intelligence (SQ) and Level of Understanding of Hindu teachings in the generation of *Bhagavadgita-based* Hindu teenagers

Spiritual intelligence is the intelligence to face and solve problems of meaning and value, that is, the intelligence to place one's behavior and life in the context of a broader and richer meaning, the intelligence to judge that one's actions or way of life are more meaningful than others [18], [19], [20] and [21]. Spiritual intelligence is the foundation needed to function IQ and EQ effectively. Good spiritual intelligence can be seen from divinity, trust, learning leadership, future-oriented, and order.

As a generation of adolescents must be filial to Him means filial piety to all beings not only to fellow human beings, but fellow living beings. Some are confused between the two regarding God as nonpersona, abstract, intangible but still placing Him in a certain place, and associating him with certain things, including dogma beliefs, and certain doctrines only.

With only high awareness and surrender completely to God, Hindu teenagers will find a way. Explanations and illustrations of self-awareness are clearly revealed in *Bahagavad gita IX.1 and IX.2* one of which states as follows: Vice versa, the generation of Hindu teenagers with low spiritual intelligence will be less motivated in understanding Hinduism that occurs is to do everything possible to achieve their desires, their willingness to get good grades, so that understanding in the teachings of Hinduism becomes less.

The results of the spiritual intelligence variable influence test (X3) showed that the value of significance obtained was 0.06, which is greater than the value of $\alpha = 0.05$. Thus, it can be concluded that H0 is accepted or H3 is rejected, meaning that spiritual intelligence is ineffective.

Application of *Bhagavadgita* Teachings for Hindu Youth as a Medium for Youth Character Formation.

With the existence of teenagers with virtuous character, it will give birth to a better nation in the future. Where this behavior will give rise to the character of teenagers who will produce the next generation of the nation is bad and will not be able to take this nation forward. Bad teenage character can be caused by several things, namely as follows.

This is because in a messy family teenagers will not get attention, so teenagers tend to seek attention outside by doing things that they think are right. If the bad character of adolescents is left alone, then as for the negative impact obtained, namely teenagers will be excluded by the community because it is considered that their presence is disturbing or threatening the situation in the community, but it will also have an impact on the survival of the nation and the country where the nation will become weak because of it.

Whereas in the scriptures, people are taught to do good teachings and avoid bad teachings, such as the following verse. In the four Sloka it can be explained that, the three elaborate on the teachings of the Tri Kaya Parisudha that is Tri means three, rich means behavior or nature, and parisudha means sanctified. Self-control teachings of Tri Kaya Parisudha is in manacika (good mind), humans are taught not to want something that is not halal, not to think badly of others, not to deny the law of Karma Phala. Then self-control in kayika (doing good), humans are taught not to torture other creatures, not to kill, not to cheat and not to commit adultery or have sexual relations outside of marriage. Based on the above sources, it is clear that applying bhagavadgita teachings will build a good adolescent character. Where the scriptures themselves contain a variety of teachings that encourage their people to do good things and avoid bad things. In addition, the role of the family and the surrounding environment to support this application is needed so that the application of Bhagavadgita teachings can be implemented properly so as to get Hindu teenagers with virtuous character.

How Effective is the Development of Artificial Intelligence Technology (*Artificial Intelligence*) By Using Fuzzy Logic Methods Related to Understanding Hindu Teachings in The Hindu Youth Generation

Researchers in this study using fuzzy logic method based on Web Fuzzy Logic is an appropriate way to map an input space into an output space. The reasons why researchers use Fuzzy Logic in decision-making systems are as follows: b. Fuzzy Logic has a tolerance for improper data. In a crisp set, the membership value of an item x in a set A , which is often written with $\mu_A[x]$ has two possibilities: a. Zero (0) which means that an item does not become a member of a set.

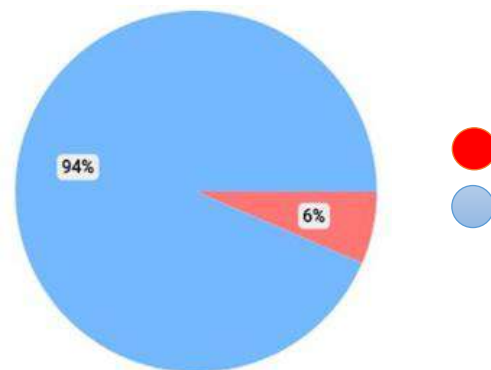


Figure 2 Graph of Mamdani's Web-based *Fuzzy Learning* Outcomes Circle 108 Respondents

In the application of the web-based Fuzzy Logic Expert System Universe talks 1-5 obtained based on the range of values on the answer to the question Expert System Strongly disagree 1 Then, to calculate the domain value of the respondent's answer obtained based on the average value of the answers to the answers on the questions of each fuzzy variable category. Results of EQ (Emotional Quotient) SQ (Spiritual Quotient) Results From the three values obtained (EQ = 4.7 and SQ = 3.1 and AI = 4.5) are included in the calculation based on fuzzy rule below, will be obtained output values that determine the level of understanding of Hindu religious teachings from respondents. Based on the research that has been done, it can be concluded that the application of Fuzzy Logic Mamdani method is very effective, can find out the Understanding of Adolescent Generation in Bhagavadgita-Based Hinduism at PGRI 4 High School and SMK PGRI 5 Denpasar. After an analysis of the data, in figure 2, the results showed that students of PGRI 4 High School and SMK PGRI 5 Denpasar 94% understanding of Hindu teachings were high and 6% did not understand the teachings. Hinduism is low.

II. CONCLUSION

Based on the results of research on the development of artificial intelligence related to the teachings of Hinduism based on Bhagavadgita and its impact on this generation of Hindu teenagers, it can be concluded as follows. 2. This study aims to find out the influence of artificial intelligence, emotional intelligence, and spiritual intelligence related to hindu religious teachings based on Bhagavadgita and its impact on the generation of Hindu teenagers. a. Artificial intelligence has a significant influence on Hindu teenagers related to the teachings / understanding of Hindu teachings of students of SMK PGRI 5 and SMA PGRI 4 Denpasar. It can be seen in the coefficient value (β_1) of 0.072 explains that if the variables of artificial intelligence increase then the understanding of the hindu adolescent generation will increase. b. Emotional intelligence has a significant

influence on Hindu teenagers related to the teachings / understanding of Hindu religious teachings of students of SMK PGRI 5 and SMA PGRI 4 Denpasar. It can be seen in the coefficient value (β_2) of 0.887 explains that if the variable of emotional intelligence increases, the understanding of the Hindu adolescent generation will increase. c. Spiritual intelligence has a significant influence on Hindu youth related to the teachings / understanding of Hindu teachings of students of SMK PGRI 5 and SMA PGRI 4 Denpasar. It can be seen in the coefficient value (β_3) of -0.039 explains that if the variable of spiritual intelligence decreases, then the understanding of the Hindu adolescent generation will decrease. d. Artificial intelligence., emotional intelligence, and spiritual intelligence together or simultaneously have a significant influence on Hindu adolescents related to the teachings / understanding of Hindu religious teachings of students of SMK PGRI 5 and SMA PGRI 4 Denpasar. 3.

This fuzzy logic with the Mamdani Method can be applied as a support system for the development of artificial intelligence. related to Hindu religious teachings based on Bhagavadgita, which is shown based on the results of processing, analysis, and testing accuracy of the data studied. 5. The application of the fuzzy logic of the Mamdani method for the development of artificial intelligence related to the teachings of Hinduism based on Bhagavadgita is very easy to use in making decisions to determine the state of understanding of Hinduism for Hindu teenagers, it can be seen in the graph of the learning results of the Fuzzy Expert System web-based 108 respondents 94% of Hindu teenagers for understanding the teachings of Hinduism is very high while 6% of the understanding is very low.

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