A STUDY ON MIRACLES THROUGH HOLY BIBLE USING TRIANGULAR COMBINED OVERLAP BLOCK FUZZY COGNITIVE MAPS (TRCOBFCMS)

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Abstract

In an attempt to understand the tangible and the untangible, man has been and continues to be in the quest to discover and feel a sense of relief from the numerous daunting issues thrust upon him, be they emotional or physical. This paper presents the solution to these issues by studying "Miracles" in detail from the Biblical point of view. It further explores the necessity of Faith to actually experience the discharge of these miracles in an individual's life. It further states that the Faith is the index of all miracles. These concepts of miracles and faith have been authenticated mathematically using the Triangular Combined Overlap Block Fuzzy Cognitive Maps.

Keywords: Fuzzy Cognitive Maps (FCMs), Triangular Fuzzy numbers, Miracles, Bible





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1.Introduction

In today's world the term "Miracle" has been so casually used in statements or comments like "It's a miracle that I was able to get a ticket" or "It's a miracle that the driver survived that terrible accident". These comments describe the occurrence as highly unlikely or even totally unexpected. However, the Holy Bible details Miracles as very specific divine actions. Four Greek terms used in the Greek New Testament very beautifully bring out the true meaning of the term "Miracle": they are "*Dunamis*"(Acts 2:22, Romans 15:19), which means Power, "*Saymeion*"(Matt 12:38,39, Acts 6:8) which means a Sign, "*Terata*"(Acts 2:19) which means wonders and "*Erga*"(John 5:20.36) which translates to Work. Hence, Miracles as explained by the scriptures are events that are beyond the capabilities of man and beyond the regular workings of the universe.

The Merriam-Webster Dictionary defines "Miracle" as an extraordinary event manifesting divine intervention in human affairs. The scripture in John 2:18 and Matthew 12:38 describes a true miracle as an event in the external world caused by the immediate agency or simple volition of God, operating without the use of means capable of being discerned by the senses and designed to authenticate the divine commission of a religious teacher and the truth of his message. Miracles are seals of a mission of divine origin or intervention that call everyone's attention to God and are rationally found to be unexplainable by probability or natural sciences. The miracles in the Holy scriptures were proof that scriptural writers, prophets and all workers were messengers of God. The credibility of these miracles is further fortified by those who witness them and by the testimony of witnesses A Miracle is an event that apparently contradicts known scientific laws and is hence thought to be due to supernatural causes especially to an act of god. Miracles in the new testament had a purpose - miracles were performed to confirm the word (Mark 16:20), to create faith in Jesus Christ (John 20:30-31), to demonstrate that God is with Jesus (John 3:2), to prove that Jesus is the Christ, the Son of God, as prophesied (Matt 8:16-17). The New Testament narrates about thirty nine miracles performed by Jesus. These miracles can be classified as Miracles of nature, Miracles of healing, and Miracles of resurrection. It is a very convenient simple and powerful tool, which is used in numerous fields such as social economical and medical etc. Usually we analyze the number of attributes ON-OFF position. But the thing is here, this gives the weightage of the attributes we call ranking of the attributes. Now we see the basic definitions for TrCOBFCMs.

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2.Degrees of the Triangular Fuzzy Number The linguistic values of the triangular fuzzy numbers are

Very Low (0, 0, 0.3) ,Low (0, 0.3, 0.5) ,Medium (0.2, 0.5, 0.8), High (0.5, 0.7, 1) , Very High (0.7, 1,1).

3.BASIC DEFINITIONS OF TRIANGULAR FUZZY COGNITIVE MAPS

3.1. Definition

When the nodes of the TrFCM are fuzzy sets then they are called as fuzzy triangular nodes.

3.2Definition

Triangular FCMs with edge weights or causalities from the set {-1, 0, 1} are called simple Triangular FCMs.

3.3Definition

AnTrFCM is a directed graph with concepts like policies, events etc, as nodes and causalities as edges, It represents causal relationships between concepts.

3.4Definition

Consider the nodes/concepts TrC_1 , TrC_2 ,..., TrC_n of the Triangular FCM. Suppose the directed graph is drawn using edge weight $Tre_{ij} \in \{-1, 0, 1\}$. The triangular matrix M be defined by $Tr(M) = (Tre_{ij})$ where Tre_{ij} is the triangular weight of the directed edge TrC_iTrC_j . Tr(M) is called the adjacency matrix of Triangular Fuzzy Cognitive Maps, also known as the connection matrix of the TrFCM.

It is important to note that all matrices associated with anTrFCM are always square matrices with diagonal entries as zero.

3.5Definition

Let $_{Tr}C_1$, $_{Tr}C_2$,..., $_{Tr}C_n$ be the nodes of an TrFCM. A= $(a_1, a_2,...,a_n)$ where $_{Tr}e_{ij} \in \{-1, 0, 1\}$. A is called the instantaneous state vector and it denotes the on-off position of the node at an instant.

Instantaneous vector = $\begin{cases} T_r a_i = 1 & Maximum(weight) \\ T_r a_i = 0 & Otherwise \end{cases}$



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3.6Definition

Let ${}_{Tr}C_1, {}_{Tr}C_2, ..., {}_{Tr}C_n$ be the triangular nodes of and TrFCM.

Let $\overline{T_r C_1}, \overline{T_r C_2}, \overline{T_r C_2}, \overline{T_r C_3}, \overline{T_r C_3}, \overline{T_r C_4}, \dots, \overline{T_r C_i}, \overline{T_r C_j}$ be the edges of the TrFCM (i \neq j). Then the edges form a directed cycle. AnTrFCM is said to be cyclic if it possesses a directed cycle. AnTrFCM is said to be acyclic if it does not possess any directed cycle.

3.7Definition

An TrFCM is said to be cyclic is said to have a feedback.

3.8Definition

When there is a feedback in anTrFCM, i.e, when the causal relations flow through a cycle in a revolutionary way, the TrFCM is called a dynamical system.

3.9Definition

Let $\overline{_{Tr}C_{1}}, \overline{_{Tr}C_{2}}, \overline{_{Tr}C_{2}}, \overline{_{Tr}C_{3}}, \overline{_{Tr}C_{3}}, \overline{_{Tr}C_{3}}, \overline{_{Tr}C_{3}}, \overline{_{Tr}C_{4}}, \dots, \overline{_{Tr}C_{n-1}}, \overline{_{Tr}C_{n}}$ be a cycle. When $_{Tr}C_{i}$ is switched ON and if the causality flows through the triangular edges of a cycle and if it again causes C_i, we say that the dynamical system goes round and round. This is true for any triangular node $_{Tr}C_{i}$ fori =1,2,...,n. The equilibrium state for this dynamical system is called the hidden pattern.

3.10Definition

If the equilibrium state of a dynamical system is a unique state vector, then it is called a fixed point. Consider a TrFCM with $_{Tr}C_1$, $_{Tr}C_2$,..., $_{Tr}C_n$ as nodes. For example let us start the dynamical system by switching on $_{Tr}C_1$. Let us assume that the TrFCM settles down with $_{Tr}C_1$ and $_{Tr}C_nON$ i.e., in the state vector remains as (1, 0, 0,...,0) is called fixed point.

3.11Definition

If the TrFCM settles down with a state vector repeating in the form $A_1 \rightarrow A_2 \rightarrow \dots \rightarrow A_i \rightarrow A_1$ then this equilibrium is called a limit cycle.

3.12 Definition.

Finite number of TrFCMs can be combined together to produce the joint effect of all the TrFCM.

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Let E 1, E 2,..., E p be the adjacency matrices of the TrFCMs with nodes C 1, C 2, ..., C n then the Triangular combined FCM is got by adding all the adjacency matrices E 1, E 2, ..., E p . We denote the Triangular combined FCM adjacency matrix by E = E 1 + E 2 + ... + E p.

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3.1.12 Let P be the problem under investigation. Let $\{C_1, C_2..., C_n\}$ be n concepts associated with p (n very large). Now divide the number of concepts $\{C_1, C_2..., C_n\}$ into classes $S_{1...}, S_t$ Where classes are such that

(1) $S_i \cap S_{i+1} \neq \Phi$ where (i = 1, 2... t-1)

(2) $\bigcup s_i = (c_1, ..., c_n)$

(3) $(s_i) \neq s_j$ if $i \neq j$ in general.

Now we obtain the TrCOBFCM associated with each of the classes S_1 ... S_t . We determines the relational matrix associated with each S. Using these matrices we obtain an n × n matrix. This n × n matrix is the matrix associated with the Triangular combined overlap block FCM (TrCOBFCM) of blacks of same sizes.

Advantage of this method

4.A Study On Miracles Through Holy bible Using TrCOBFCMs For that, using linguistic questionnaire and the expert's opinion we have taken the following nine concepts $\{C_1, C_2, ..., C_9\}$

The following concepts are taken as the main nodes for our problem. Release of miracles through the power of Jesus

- TrC₁- Hearing the word of God
- TrC₂- Repentance
- TrC₃- Humility
- TrC₄- Authority in the spiritual realm
- TrC₅- Faith
- TrC₆- Obediende
- TrC₇- God,s Compassion
- Tr C₈- Perseverance in prayer

TrC₉- Love



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5. METHOD OF DETERMINING THE HIDDEN PATTERN

Step 1: Let $_{Tr}C_1$, $_{Tr}C_2$,..., $_{Tr}C_n$ be the nodes of an TrFCM, with feedback, Let Tr(M) be the associated adjacency matrix.

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Step 2:Let us find the hidden pattern when $_{Tr}C_1$ is switched ON. When an input is given as the vector $A_1 = (1, 0, ..., 0)$, the data should pass through the relation matrix M. This is done by multiplying A_i by the triangular matrix M.

Step 3:Let $A_{iTr}(M) = (a_1, a_2, ..., a_n)$ will get a triangular vector. Suppose $A_{1Tr}(M) = (1, 0, ..., 0)$ it gives a triangular weight of the attributes, we call it as $A_{iTr}(M)_{weight}$.

Step 4: Adding the corresponding node of the three experts opinion, we call it as A_{i Tr}(M)_{sum}.

- **Step 5:**The threshold operation is denoted by(\rightarrow) ie., A_{1Tr}(M)_{Max(weight)}. That is by replacing a_i by 1 if a_i is the maximum weight of the triangular node (ie., a_i=1), otherwisea_i by 0(ie., a_i=0).
- **Step 6:**Suppose $A_{1Tr}(M) \rightarrow A_2$ then consider $A_{2Tr}(M)_{weight}$ is nothing but addition of weightage of the ON attribute and $A_{1Tr}(M)_{weight}$.

Step 7: Find $A_{2 Tr}(M)_{sum}$ (ie., summing of the three experts opinion of each attributes).

- **Step 8:** The threshold operation is denoted by(\rightarrow) ie., $A_{2Tr}(M)_{Max(weight)}$. That is by replacing a_i by 1 if a_i is the maximum weight of the triangular node (ie., $a_i=1$), otherwise a_i by 0 (ie., $a_i=0$).
- **Step 9:** If the $A_{1Tr}(M)_{Max(weight)}$. = $A_{2Tr}(M)_{Max(weight)}$. Thendynamical system end otherwise repeat the same procedure.

Step 10: This procedure is repeated till we get a limit cycle or a fixed point.

Using the linguistic questionnaire and the expert's opinion we have taken the following nine concepts $\{C_1, C_2, ..., C_9\}$

 TrC_1 - Gods Compassion, TrC_2 - Love, TrC_3 - Humility, TrC_4 - Authority in the spiritual realm, TrC_5 - Faith, TrC_6 -Repentance, TrC_7 - Hearing the word of god, TrC_8 - Faith

TrC₉- Perseverance through prayer

Now we proceed on to apply the effect of Triangular combined overlap block of equal length. Let us consider the nine concepts $\{C_1, C_2, ..., C_9\}$. We divide these concepts into cyclic way of classes, each having just four concepts in the following way.

The directed graph and the relation matrix for the class $C = \{C_1, C_2, C_3, C_4\}$. The expert opinion of an expateriot of religious churches is given as follows:

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LINGUISTIC VARIABLES FOR THE TRIANGULAR FUZZY NODE

	Trc_1	Trc_2	Trc_3	Trc_4
Trc_1	0	vh	h	h
Trc_2	vh	0	h	h
Trc_3	h	h	0	т
Trc_4	h	h	т	0

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Linguistic values of the triangular fuzzy nodes

	Trc_1	Trc_2	Trc ₃	Trc_4
Trc_1	0	0.7,1,1	0.5,0.7,1	0.5,0.7,1
Trc_2	0.7,1,1	0	0.5,0.7,1	0.5,0.7,1
Trc_3	0.5,0.7,1	0.5,0.7,1	0	0.2,0.5,0.8
Trc_4	0.5,0.7,1	0.5,0.7,1	0.2,0.5,0.8	0

The directed graph and the relational matrix for the class $C = \{C_1, C_2, C_5, C_6\}$. Given by the expert is as follows: (Religious NGO)

	Trc_1	Trc_2	Trc_5	Trc_{6}
Trc	0	vh	т	vh
Trc	₂ vh	0	vh	vh
Trc	, m	vh	0	vh
Trc	, vh	vh	vh	0

Linguistic values of the triangular fuzzy nodes

	Trc_1	Trc_2	Trc_5	Trc_{6}
Trc_1	0	0.7,1,1	0.2,0.5,0.8	0.7,1,1
Trc_2	0.7,1,1	0	0.7,1,1	0.7,1,1
Trc_5	0.2,0.5,0.8	0.7,1,1	0	0.7,1,1
Trc_6	0.7,1,1	0.7,1,1	0.7,1,1	0

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The directed graph and the relational matrix for the class $C = \{C_5, C_6, C_7, C_8\}$. Given by the expert is as follows: evanglist,

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LINGUISTIC VARIABLES FOR THE TRIANGULAR FUZZY NODE

	Trc_5	Trc_{6}	Trc_7	Trc_8
Trc_5	0	vh	vl	vh
Trc_6	vh	0	vl	h
Trc ₇	vl	vl	0	h
Trc ₈	vh	h	h	0

Linguistic values of the triangular fuzzy nodes

	Trc_5	Trc_{6}	Trc_7	Trc_8
Trc_5	0	0.7,1,1	0,0,0.3	0.7,1,1
Trc_6	0.7,1,1	0	0,0,0.3	0.5,0.7,1
Trc_7	0,0,0.3	0,0,0.3	0	0.5,0.7,1
Trc ₈	0.7,1,1	0.5,0.7,1	0.5,0.7,1	0

The directed graph and the relation matrix for the class $C = \{C_7, C_8, C_9, C_1\}$ Given by the expert is as follows: students from bible college

	Trc_7	Trc ₈	Trc ₉	Trc_1
Trc ₇	0	h	h	l
Trc ₈	h	0	h	h
Trc_9	h	h	0	h
Trc_1	l	h	h	0

Linguistic values of the triangular fuzzy nodes

	Trc_7	Trc_8	Trc_9	Trc_1
Trc_7	0	0.5,0.7,1	0.5,0.7,1	0,0.3,0.5
Trc_8	0.5,0.7,1	0	0.5,0.7,1	0.5,0.7,1
Trc_9	0.5,0.7,1	0.5,0.7,1	0	0.5,0.7,1
Trc_1	0,0.3,0.5	0.5,0.7,1	0.5,0.7,1	0

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The directed graph and the relation matrix for the class $C = \{C_1, C_7, C_8, C_9\}$ Given by the expert is as follows: Beliver

	Trc_1	Trc_7	Trc_8	Trc_9
Trc_1	0	l	h	h
Trc_7	l	0	h	h
Trc_8	h	h	0	h
Trc_9	h	h	h	0

Linguistic values of the triangular fuzzy nodes

	Trc_1	Trc_7	Trc_8	Trc ₉
Trc_1	0	0,0.3,0.5	0.5,0.7,1	0.5,0.7,1
Trc_7	0,0.3,0.5	0	0.5,0.7,1	0.5,0.7,1
Trc_8	0.5,0.7,1	0.5,0.7,1	0	0.5,0.7,1
Trc_9	0.5,0.7,1	0.5,0.7,1	0.5,0.7,1	0

The combined direct graph and Triangular combined overlap block FCM (TrCOBFCM) of equal sizes as follows

	Trc_1	Trc_2	Trc ₃	Trc_4	Trc_5	Trc_6	Trc ₇	Trc ₈	Trc_9
Trc ₁	0	1.4,2,2	0.5,0.7,1	0.5,0.7,1	0.2,0.5,0.8	0.7,1,1	0,0.6,1	1,1 <mark>.4,2</mark>	1,1.4,2
Trc ₂	1.4 <mark>,2,2</mark>	0	0.5,0.7,1	0.5 <mark>,0.7</mark> ,1	0 <mark>.7,1,1</mark>	0.7,1,1	0	0	0
Trc ₃	0.5 <mark>,0.7</mark> ,1	0.5,0.7,1	0	0.2,0.5,0.8	0	0	0	0	0
Trc ₄	0.5 <mark>,0.</mark> 7,1	0.5,0.7,1	0.2,0.5,0.8	0	0	0	0	0	0
Trc ₅	0.2, <mark>0.5</mark> ,0.8	0.7,1,1	0	0	0	1.4,2,2	0,0,0.3	0. <mark>7,1,1</mark>	0
Trc ₆	0. <mark>7,1</mark> ,1	0.7,1,1	0	0	1.4,2,2	0	0,0.0.3	0.5,0.7,1	0
Trc ₇	0.0.6,1	0	0	0	0,0,0.3	0,0,0.3	0	1.5 <mark>,2.1,</mark> 3	1,1.4,2
Trc ₈	1,1.4,2	0	0	0	0.7,1,1	0.5,0.7,1	1.5,2.1,3	0	1,1.4,2
Trc ₉	1,1.4,2	0	0	0	0	0	1,1.4,2	1,1.4,2	0

 $A^{(1)}Tr(M)_{Weight} = (0, (1.4, 2, 2), (0.5, 0.7, 1), (0.5, 0.7, 1), (0.2, 0.5, 0.8), (0.7, 1, 1), (0, 0.6, 1), (1, 1.4, 2), (0, 0, 0, 1), (0, 0, 0, 0, 1), (0, 0, 0, 0, 1), (0, 0, 0, 0, 0), (0, 0, 0, 0, 0), (0, 0, 0, 0, 0), (0, 0, 0, 0), (0, 0, 0, 0), (0, 0, 0, 0), (0, 0, 0, 0), (0, 0, 0, 0), (0, 0, 0, 0), (0,$

(1,1.4,2),

 $A^{(1)}Tr(M)_{Average} = (0, 1.8, 0.73, 0.73, 0.5, 0.9, 0.53, 1.46, 1.46)$

 $A^{(1)}Tr(M)_{Max(Weight)}$ ~ (0 1 0 0 0 0 0 0 0) = $A_1^{(1)}$

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$$\begin{split} A_{1}^{(1)} \mathrm{Tr}(\mathbf{M})_{\mathrm{Average}} &= (3.24, 0, 1.3194, 1.3194, 1.62, 1.62, 0, 0, 0) \\ A_{1}^{(1)} \mathrm{Tr}(\mathbf{M})_{\mathrm{Max(Weight)}} \rightarrow (1\ 0\ 0\ 0\ 0\ 0\ 0\ 0) = A_{2}^{(1)} \\ A_{2}^{(1)} &= A^{(1)} \quad .. \\ \mathrm{Attribute} \ \mathrm{TrC}_{1} \ \mathrm{is} \ \mathrm{ON}: \ A^{(2)} &= (0\ 1\ 0\ 0\ 0\ 0\ 0\ 0) \\ A^{(1)} \mathrm{Tr}(\mathbf{M})_{\mathrm{Weight}} = ((1.4, 2, 2), (0), (0.5, 0.7, 1), (0.5, 0.7, 1), (0.7, 1, 1), (0.7, 1, 1), (0), (0), (0)) \\ A^{(1)} \mathrm{Tr}(\mathbf{M})_{\mathrm{Average}} = (1.8, 0, 0.73, 0.73, 0.9, 0.9, 0, 0, 0) \\ A^{(1)} \mathrm{Tr}(\mathbf{M})_{\mathrm{Max(Weight)}} \sim (1\ 0\ 0\ 0\ 0\ 0\ 0\ 0) = A_{1}^{(2)} \\ A_{1}^{(1)} \mathrm{Tr}(\mathbf{M})_{\mathrm{Average}} = (0, 3.24, 1.314, 1.314, 0.9, 1.62, 0.954, 2.63, 2.63) \\ A_{1}^{(1)} \mathrm{Tr}(\mathbf{M})_{\mathrm{Max(Weight)}} \rightarrow (0\ 1\ 0\ 0\ 0\ 0\ 0\ 0) = A_{2}^{(2)} \\ A_{2}^{(2)} &= A^{(2)} \quad .. \end{split}$$

Do the process for the remaining attributes

Table: 1 Weightage of the attributes

		Trc_1	Trc_2	Trc_3	Trc_4	Trc_5	Trc_{6}	Trc_7	Trc_8	Trc ₉
	Trc_1	3.24	0	1.3194	1.3194	1.62	1.62	0	0	0
	Trc_2	0	3.24	1.314	1.314	0.9	1.62	0.954	2.63	2.63
	Trc_3	<u>6.8117</u>	6.8117	0	0	13.6234	0	0.7568	5.5250	0
	Trc_4	6.8117	<mark>6.</mark> 8117	0	0	13.6234	0	0.7568	5.5250	0
	Trc_5	1.62	1.62	0	0	3.24	0	0.18	1.314	0
	Trc_{6}	0.9	1.62	0	0	0	3.24	0.18	1.62	0
	Trc_7	3.2252	0	0	0	1.98	1.606	4.84	0	3.225
	Trc_8	1.666	0	0	0	0.22	0.22	0	4.84	3.225
	Trc_9	9.455	0	0	0	0	0	9.455	9.455	0
	4 - 4 - 1	: - 14	22 7 2 9	20 102	2 6224	2 6224	25 2069	0.206	17 100	c 20.00
	totalwe	eignt	33.728	20.103	2.0334	2.0334	35.2068	8.306	17.122	o 30.90
Ave	ragetot	alweight	3.747	2.233	0.2926	0.2926	3.911	0.922	1.9025	5 3.434

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9.11

1.012



5. CONCLUSION

A new fuzzy model Triangular Combined Fuzzy Cognitive Maps (TrCOBFCMs) gives the ranking for the Miracles Through Holy Bible, Faith -3.911, Hearing the word of God-3.747 -Perseverance in prayer -3.434, Repentance -2.233, Gods Compassion 1.9025, Love -1.012,Obediende-0.922, Humility And Authority in the spiritual realm -0.2926 in this research we found that, Faith which leads miracles in the HolyBible. When we use Fuzzy Cognitive Maps (FCM) the above causes are ON stage. But this new model gives the ranking of the causes of the problem. This is the beauty of this Triangular Combined Fuzzy Cognitive Maps (TrCOBFCM). Faith according to the Bible is the assurance of things hoped for, the conviction of things not seen (Hebrews 11:1). And for whosoever seeks to draw near to God, faith in Him is paramount and it is impossible to please God without faith (Hebrews 11:6). Having faith signifies a hope in a hopeless situation, which in turn means, being completely convinced that God will do what He promised to do (Romans 4: 18-21). When people have faith, they can access the favour or grace of God(Romans 5:2). There can be no other way to please God but by Faith(Hebrews 11:6). Faith is key to releasing Miracles, which are seals of a divine mission. The credibility of these miracles is established due to the Faith of those who experience these miracles, by those who witness the miracles first hand and by others who bear testimony to the miracles performed. A review of the numerous miracles recorded in the New Testament, be it the restoration of sight or hearing (Matt. 9:27-31, Mark 7: 31-37, Mark 8: 22-26), curing of diseases (Luke 14:1-6, Luke 17:11-19, Luke 13:11-17), resurrection of the dead (John 11:38-44, Luke 7: 11-180), abundant provision during drought (Matt. 15:32, Mark 8;1, John 21:1-40), etc show that all these miracles were possible because of the Faith of the individual/s vested on Jesus and the Disciples of Jesus. Faith leading to dispensation of miracles further fortifies the strength of the individual in the Maker, enabling them to thrust forward with renewed vigour.

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