





## QUR'ANIC PASSAGES RETRIEVAL (DLALAT)

ARTIFCIAL INTELLIGENCE DEPARTMENT, KING ABDULLA II SCHOOL FOR INFORMATION TECHNOLOGY, UNIVERSITY OF JORDAN, 2023 - 2024, AMMAN - JORDAN.

## INTRODUCTION

THE HOLY QUR'AN IS A CENTRAL TEXT IN ISLAM, CONTAINING SPIRITUAL, MORAL, AND LEGAL GUIDANCE FOR MUSLIMS. WITH THE ADVANCEMENT OF TECHNOLOGY, WEB CHATBOT SERVICES HAVE BECOME A POPULAR MEDIUM FOR DISSEMINATING INFORMATION AND FACILITATING DISCUSSIONS. THIS REPORT EXPLORES THE DEVELOPMENT OF A WEB CHATBOT THAT OFFERS DETAILED INSIGHTS INTO THE QUR'AN USING THE CAPABILITIES OF THE BERT MODEL. THE CHATBOT'S PRIMARY FUNCTION IS TO RECEIVE FREE-TEXT QUESTIONS IN MSA AND RETURN A RANKED LIST OF PASSAGES THAT POTENTIALLY CONTAIN RELEVANT ANSWERS HIGHLIGHTING THE ANSWER IF FOUND.

## PROBLEM STATEMENT

THE CHALLENGE IS TO DESIGN A SYSTEM THAT EFFECTIVELY UNDERSTANDS USER QUESTIONS, RETRIEVES RELEVANT QUR'ANIC PASSAGES, AND RANKS THEM BASED ON THEIR LIKELIHOOD OF CONTAINING PERTINENT ANSWERS, THE SYSTEM THEN SEARCHES THESE PASSAGES FOR ANSWERS. THIS INVOLVES LEVERAGING THE CAPABILITIES OF THE BERT MODEL TO RETRIEVE COHERENT AND INFORMATIVE RESPONSES WHILE ENSURING THAT THE SYSTEM REMAINS ACCURATE AND RESPECTFUL OF THE SACRED TEXT.

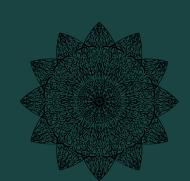


**NAMES:** 

**ABDULLAH ABUZEIDAN 0201393** 

**ABDULELAH SANTRISI 0205589** 

**OMAR ZAMIL 0204071** 



**SUPERVISORS:** 

**DR. RUBA OBIEDAT** 

**DR. NADIM OBIED**