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# Interpretation of Natural Language using Data Mining, NLP and Machine Learning Techniques

## PROJECT REPORT

*submitted by*

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*in partial fulfilment of the requirements for the award of the degree of*

Bachelor of Technology  
in  
Computer Science and Engineering

under the guidance of

Dr G. Gopakumar



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
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11th MAY 2016

## ACKNOWLEDGEMENTS

We would like to express our deep sense of gratitude to the CSE Department for its continuous effort in creating a competitive environment in our college and encouragement throughout this course. We would like to convey our heartfelt thanks to our HOD ***Dr. Abdul Nazeer K A*** for giving us the opportunity to take up this project.

We would like to thank our project guide ***Dr Gopakumar G*** who provided insight and expertise that greatly assisted this project. We would like to acknowledge the tireless and prompt help of our faculty ***Bharat*** Sir. We thank all the staff and non-staff members of the Department of Computer Science and Engineering for helping us directly or indirectly in completing this project successfully. Finally we are thankful to our parents and friends for their continued moral and material support throughout the project work.

**ANISHA KUMARI**  
**DRISHYA PRAVEEN C P**  
**INDU SREE**

## DECLARATION

*“We hereby declare that this submission is our own work and that, to the best of our knowledge and belief, it contains no material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgement has been made in the text”.*

**Place: Calicut**  
**Date: 11-05-2016**

**Signature :**

**Name : Anisha Kumari**  
**Roll No.: B120535CS**

**Signature :**

**Name : Drishya Praveen C P**  
**Roll No.: B120086CS**

**Signature :**

**Name : Indu Sree**  
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## CERTIFICATE

*This is to certify that the project report entitled: “INTERPRETATION OF NATURAL LANGUAGE USING DATA MINING, NLP AND MACHINE LEARNING TECHNIQUES” submitted by Ms Anisha Kumari B120535CS, Drishya Praveen C P B120086CS, and Indu Sree B120668CS to National Institute of Technology Calicut towards partial fulfilment of the requirements for the award of Degree of Bachelor of Technology in Computer Science Engineering is a bonafide record of the work carried out by them under my supervision and guidance.*

*Signed by Guide(s) with name(s) and date*

**Place: Calicut**

**Date: 11-05-2016**

*Signature of Head of the Department*

*Office Seal*

### **Abstract**

Our project aims at building a Question Answering System which when posed with the question in natural language, returns an answer motivated by IBM Tool WATSON. Parse tree format of the question is generated using Stanford Parser and from that Triplets are formed using Triplet Extraction algorithm which are then used for retrieving the answer from ontological database.