**BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI**

**Work Integrated Learning Programmes Division**

# Post Graduate Program in Artificial Intelligence and Machine Learning

# DIALOG FILLER RESUME ASSISTANT CHATBOT

CAPSTONE PROJECT

Submitted in partial fulfillment of the requirements of the

**Post Graduate Certification Program in Artificial Intelligence and Machine Learning**

By

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Project work carried out at

## BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE Pilani (Rajasthan) INDIA

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**BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI**

## CERTIFICATE

### This is to certify that the Capstone Project entitled “Dialog Filler Resume Assistance Chatbot” and submitted by Mr. Sandeep Maurya (2021AIMLXXX), Mr. Avinay Lall (2021AIMLXXX), Mr. Vivek Soni (2021AIML036) and Mr. Ramu Yelamchili (2021AIMLXXX) in partial fulfilment of the requirements of PCAM ZC321 Capstone Project, embodies the work done by him/her under my supervision.



Place : BITS Pilani, Hyderabad Signature of the Mentor

Date : 10t October 2022 Name : Sudarshan S. Deshmukh

# ABSTRACT

Chatbots are single-purpose programs that focus on performing one function. Using rules, NLP, and very little ML, they generate automated but conversational responses to user in queries. Interactions with these chatbots are highly specific and structured and are most applicable to support and service functions—think robust, interactive FAQs. Task-oriented chatbots can handle common questions, such as queries about hours of business or simple transactions that don’t involve a variety of variables. Though they do use NLP so end users can experience them in a conversational way, their capabilities are fairly basic.

Existing chatbots do not have any capability to fill the gap in the user conversation. For example, if the chatbot asked “Tell me about yourself” and user-provided all the details except his address. Then chatbot should ask about “address” implicitly. That will ensure complete information.

An AI enabled chatbot development will solve this specific problem using a semantic knowledge graph.

**Key Words:**

Deep Learning, Computer Vision, Chabot, RASA, Assistance, Artificial intelligence

# LIST OF ABBREVIATIONS

|  |  |
| --- | --- |
| AI/ML | Artificial Intelligence/ Machine Learning |
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