**Annexure 1**

Project Report

on

# **PyBot-GUI-Chatbot**

Submitted

In Partial Fulfillment of

**BACHELORS OF COMPUTER APPLICATIONS (BCA)**

**Submitted by: Harsh Awana**



Name Harsh Awana

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**Under the Supervision of: Ms. Priyanka Sharma**

(PyBot-GUI-Chatbot)



**School of Computer Applications**

**Manav Rachna International Institute of Research and Studies**

**(DEEMED TO BE UNIVERSITY)**

Sector-43, Aravalli Hills

Faridabad – 121001

**June 2025**

**Annexure 2**

**Declaration**

I do hereby declare that this project work entitled “PyBot-GUI-Chatbot” submitted by me for the partial fulfillment of the requirement for the award of **BACHELORS OF COMPUTER APPLICATIONS** is a record of my own work. The report embodies the finding based on my study and observation and has not been submitted earlier for the award of any degree or diploma to any Institute or University.

**SIGNATURE**

Name: Harsh Awana

Roll No:23/SCA/BCA(CS)/016

Date: 17TH JULY 2025

**Annexure 3**

**Certificate from the Guide**

This is to certify that the project report entitled “PyBot-GUI-Chatbot ” submitted in partial fulfillment of the degree of **BACHELORS OF COMPUTER APPLICATIONS** to Manav Rachna International Institute of Research and Studies, Faridabad is carried out by Mr. Harsh Awana (Roll No), 23/SCA/BCA(CS)/016 under my guidance.

**Signature of the Guide**

Name: Ms. Priyanka Sharma

Date: 17th JULY 2025

**Head of Department** : School Of Computer Application

Name : Dr. Suhail Javed Quraishi

Date : 17th July 2025

**ACKNOWLEDGEMENT**

I gratefully acknowledge for the assistance, cooperation, guidance and clarification provided by Ms./Mr. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ during the development of \_\_\_\_\_\_\_\_\_\_\_\_\_\_. My extreme gratitude to **Dr. Raj Kumar, Associate Professor & TPO** who guided us throughout the project. Without his willing disposition, spirit accommodation, frankness, timely clarification and above all faith in us, this project could not have been completed in due time. His readiness to discuss all important matters at work deserves special attention of.

I would like to extend my sincere gratitude to **Prof. (Dr.) Suhail Javed Quraishi – HOD, Prof. (Dr.) Rashmi Agrawal – Associate Dean and Prof. (Dr.) Brijesh Kumar – Dean** for their valuable teachings and advice. I want to thank all the department faculty members for their cooperation and support. I want to thank non-teaching staff of the department for their cooperation and support.

This opportunity is a big milestone in my career development. I will strive to use gained skills and knowledge in the best possible way, and I will continue to work on their improvement, to attain desired career objectives. I hope to continue cooperation with all of you in the future.

# ABOUT THE COMPANY :

Maruti Suzuki India Limited (MSIL) is one of the most prominent and trusted automobile manufacturers in India. Established in 1981 as a joint venture between the Government of India and Suzuki Motor Corporation of Japan, Maruti Suzuki has played a crucial role in transforming the Indian automotive landscape by making car ownership accessible to the common man. Over the years, it has become synonymous with reliability, affordability, and innovation in the Indian auto market.

Maruti Suzuki offers a wide range of vehicles catering to various market segments — from compact hatchbacks like the Alto and Swift, to premium models like the Ciaz and Grand Vitara. The company has always remained committed to delivering quality, performance, and customer satisfaction, and continues to lead the market in terms of sales volume and service outreach.

The Lajpat Nagar branch is a key outlet in the Delhi region, focusing on sales, services, and customer support. In addition to its commercial functions, the branch also includes an Information Technology (IT) department, which plays a vital role in ensuring smooth digital operations, data management, system support, and network infrastructure. The IT team supports internal processes through various tools and technologies such as customer relationship management systems (CRM), inventory software, diagnostics systems, and cybersecurity protocols.

Maruti Suzuki places strong emphasis on digital transformation, integrating technologies like automation, cloud computing, and data analytics into its operations. This ensures efficient workflow, accurate data-driven decisions, and enhanced customer experience across all its branches, including Lajpat Nagar.

Through its continued investment in innovation and people, Maruti Suzuki remains at the forefront of India’s automotive industry, not only as a car manufacturer but also as a technology-driven enterprise that adapts to the evolving digital era.

# AIMS AND OBJECTIVES

The primary aim of the internship at MARUTI SUZUKI was to bridge the gap between academic knowledge and real-world industrial practices in the field of Information Technology. The internship provided a platform to work in a professional environment, observe the functioning of the IT department, and contribute to ongoing projects and operations.

The key objectives of the internship were:

* To understand the structure and functioning of the IT department within an established automobile company like MARUTI SUZUKI.
* To gain hands-on experience with enterprise IT tools such as inventory management systems, CRM software, and service automation platforms.
* To assist in routine technical support tasks including troubleshooting, system maintenance, and user support.
* To learn about the integration of IT in business operations such as customer handling, vehicle servicing, and internal communication.
* To develop and enhance skills in areas like networking, database management, cybersecurity, and software updates.
* To observe how data is managed, stored, and used for decision-making within a corporate IT ecosystem.
* To cultivate teamwork, communication, and time management skills through collaboration with professionals.
* To analyze and document the workflow of IT processes in a structured manner for better understanding and future application.

# Proposed System Summary

As part of the internship at **MARUTI SUZUKI**, a mini project titled **PyBot-GUI-Chatbot** was proposed and developed to showcase practical knowledge in Python programming and user interface design. The primary goal of this project was to create a lightweight, interactive chatbot application capable of performing basic tasks while offering a user-friendly graphical interface.

**PyBot-GUI-Chatbot** is a desktop-based chatbot built using Python’s tkinter library for the GUI and integrates external modules like datetime and pyjokes to enhance functionality. The chatbot allows users to interact through a clean, responsive interface and receive relevant outputs based on simple commands.

**Key Features of PyBot-GUI-Chatbot:**

* **Time Functionality:** Provides the current system time when requested by the user.
* **Joke Generator:** Delivers a random joke using the pyjokes module, adding a fun and interactive element.
* **Graphical User Interface:** Developed with tkinter, the GUI simulates a basic chat window where users can enter queries and view responses in a visually appealing format.
* **Event-Driven Architecture:** The chatbot responds to user inputs in real time, demonstrating concepts of event handling and user interaction.

This project served as a hands-on experience in integrating backend logic with frontend design, and provided insight into real-world applications of Python in IT systems. It also strengthened the intern’s skills in software development, UI/UX basics, and modular programming, aligning with the objectives of the internship at **MARUTI SUZUKI**.

As part of the internship at MARUTI SUZUKI, a simple and interactive Python-based chatbot with a Graphical User Interface (GUI) was proposed and developed. The objective of this project was to apply practical programming knowledge in building a user-friendly desktop application that demonstrates basic automation and interaction capabilities.

The chatbot is designed to perform the following key functions:

* Display Current Time: Upon request, the chatbot provides the current system time.
* Tell a Random Joke: It responds with a randomly selected joke using the pyjokes library, adding a fun and engaging element to the conversation.
* GUI Interface: Built using the tkinter library, the chatbot features a clean and interactive graphical interface where users can type their queries and receive responses in a chat-style window.

The system was developed to demonstrate how Python can be used for creating simple utility applications that combine logic, automation, and user interface design. It also served as a practical introduction to event-driven programming, GUI layout management, and integrating external libraries for enhanced functionality.

This mini-project reflects the intern’s ability to apply classroom knowledge to real-world use cases in an IT-based environment like MARUTI SUZUKI, while also enhancing problem-solving and coding skills.

# Gantt Chart

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task / Activity** | **Week 1** | **Week 2** | **Week 3** | **Week 4** |
| Company Orientation & IT Department Overview | ✔️ |  |  |  |
| Requirement Gathering & Project Planning | ✔️ | ✔️ |  |  |
| Learning GUI in Python (tkinter) |  | ✔️ |  |  |
| Coding Core Functionalities (Time & Joke) |  | ✔️ | ✔️ |  |
| GUI Integration and Chat Layout Design |  |  | ✔️ |  |
| Testing & Debugging |  |  | ✔️ | ✔️ |
| Final Deployment / Presentation |  |  |  | ✔️ |
| Report Preparation and Submission |  |  |  | ✔️ |

Github link - https://github.com/HarshAwana/PyBot-GUI-Chatbot