

Seminar Topic Summary Report

Institution Name: Basaveshwar Engineering College, Bagalkot

Department of Computer Applications (MCA)

Course: MCA

Semester: II

Seminar Topic: Voice Assistant in AI

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1. Introduction

Choosing a good topic gives us knowledge that is useful for our studies and future jobs. Voice Assistant is one such topic that shows how computers can understand and talk with humans using voice commands. It is used in phones, homes, and many devices to make life easier.

2. Seminar Topic Details

Title of the Topic: Voice Assistant in AI

Area/Domain: Artificial Intelligence, Human-Computer Interaction

Keywords: Voice Control, Speech Recognition, Smart Assistant

3. Topic Summary

Voice assistants are computer programs that understand and reply to our voice. Some common examples are Google Assistant, Siri, and Alexa. These assistants help us do many tasks like playing music, setting reminders, and getting weather updates.

Voice assistants work using speech recognition and artificial intelligence. They listen to what we say, understand it, and give the correct answer or action. This technology is improving fast and is used in many places like smart homes, cars, and even in hospitals.

It is becoming more popular because it is easy to use, helps save time, and is useful for people of all ages. It also helps people with disabilities to use devices easily.

4. Relevance to MCA Curriculum

This topic is related to MCA subjects like:

- Artificial Intelligence
- Machine Learning
- Human-Computer Interaction
- Software Engineering

It shows how computer programs work with voice and how smart applications are built using AI and ML.

5. Learning Objectives

- Learn how voice assistants work.
- Understand how voice is converted to text.
- Know the use of AI in voice assistants.
- See real-life uses of voice assistants.
- Learn about future scope in this field.

6. Expected Outcome

After attending this seminar, students will:

- Understand what a voice assistant is and how it works.
- Learn how we can talk to computers using voice.
- Know how voice assistants are used in mobile phones, homes, and other devices.
- Get ideas on how to make voice-based apps in future.
- Be prepared to work on simple AI projects or improve their knowledge in this area.

7. References

Books:

1. Jurafsky, D., & Martin, J. H. Speech and Language Processing, Pearson, 2021
2. Tanwar, S., & Patel, N. Intelligent Voice Assistants: Architecture and Applications, Springer, 2020.

Websites:

- <https://developer.amazon.com>, 2024.
- <https://developers.google.com/assistant>, 2024

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