PrepSmart - Smart Interview Preparation with AI

Project-III (IT06PPC31) report submitted to

Guru Ghasidas Vishwavidyalaya(A central University)

in partial fulfilment for the award of the degree of

Bachelor of Technology

in

Information Technology

By

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April 3, 2025

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CERTIFICATE

This is to certify that the project report entitled "**PrepSmart - Smart Interview Preparation with AI**" submitted by **Abhishek Kumar, Chaitanaya Singh Rathore, Arpit Patel** (Roll No. 21036104, 21036118, 21036116) to Guru Ghasidas Vishwavidyalaya towards partial fulfilment of requirements for the award of degree of Bachelor of Technology in Information Technology is a record of bonafide work carried out by him under my supervision and guidance during .

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Abstract

Name of the student:Abhishek Kumar, Chaitanaya Singh Rathore, Arpit Patel

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Degree for which submitted: Bachelor of Technology

Department: Department of Information Technology

Thesis title: PrepSmart - Smart Interview Preparation with AI

Thesis supervisor: Dr. Ramgopal Kashyap

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PrepSmart - AI-Powered Interview Preparation

This project presents a voice-enabled interactive system integrating a Large Language Model (LLM) with Speech-to-Text (STT) and Text-to-Speech (TTS) technologies. It enables seamless interaction via speech and text, ensuring accessibility while refining the methodology to focus solely on these modalities.

User input—spoken or typed—is processed via STT (if applicable) and sent to the LLM for response generation. The output is then presented as text or converted into speech using TTS. Additionally, an evaluation mechanism analyzes verbal quiz responses for assessment and feedback.

Applications include virtual assistants, language learning, and accessibility solutions. By leveraging NLP and speech synthesis, the system enhances human-computer interaction. This report details methodology, system architecture, implementation, and evaluation, demonstrating the workflow's effectiveness.

Expected Outcome: An intelligent, responsive assistant that improves communication through speech and text-based engagement.