MAJOR PROJECT

**ON**

**Smart Email Generator & Chrome Browser Extension**

*Submitted to*

*Amity University Kolkata*



*For the partial fulfillment of the award of the degree*

**BACHELOR OF COMPUTER APPLICATIONS**

by

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AMITY INSTITUTE OF INFORMATION TECHNOLOGY

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April 2025

**DECLARATION**

I hereby declare that the dissertation entitled “GemMail Smart Email Generator & Chrome Browser Extension **”** submitted by me in partial fulfilment of the requirements for the award of the Degree of Bachelor of Computer Applications to the AMITY UNIVERSITY, KOLKATA is based on the experiments and studies carried out by me. This work is original and has not been submitted in part or full for any other degree or diploma of any university or institution.

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**CERTIFICATE**

This research work embodied in this dissertation entitled “GemMail **Smart Email Generator & Chrome Browser Extension”** submitted by **AYUSH GUPTA**, Enrollment No. **A91404822003** in partial fulfilment of the requirements for the award of the Degree of Bachelor of Computer Applications to the AMITY UNIVERSITY, KOLKATA is based on the experiments and studies carried out by him/her. This work is original and has not been submitted in part or full for any other degree or diploma of any university or institution.

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**FEEDBACK BY EXAMINERS**

**A. Comments From Seminar Guide**

**B. Comments From External Examiner**

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**ABSTRACT**

GemMail is an AI-powered tool designed to revolutionize email communication by making it faster, smarter, and more intuitive. In a world where emails remain central to professional and personal interactions, many users struggle with drafting timely and well-phrased responses. GemMail solves this problem using Google’s **Gemini API** to generate context-aware, personalized email replies that go beyond generic templates.

Key features include **tone customization**—offering options like formal, friendly, or persuasive—and a **copy-to-clipboard** function for quick integration into your workflow. To further enhance usability, a **Chrome extension** brings GemMail’s functionality directly into Gmail, enabling seamless, real-time suggestions without disrupting the user experience.

This report outlines the development of GemMail using **React, Vite, Material UI, Spring Boot, and Gemini API**, highlighting the challenges faced, solutions implemented, and the tool’s current capabilities. Looking ahead, future enhancements may include multi-language support, advanced sentiment analysis, and smarter intent detection. GemMail is more than just an email assistant—it’s a leap toward AI-enhanced communication.