



VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI – 590 018

A Research/Industry Internship Report on
“CLOUD APPLICATION DEVELOPMENT”

Submitted in partial fulfillment of the requirements for the award of degree of

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

Submitted by:

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2024-20



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Certificate

This is to certify that the internship work entitled “**CLOUD APPLICATION DEVELOPMENT**” is bonafied work carried out by **Vishal Rangrej (2KA21CS061)**, in partial fulfillment of the requirements for the award of the degree of **Bachelor of Engineering in Information Science and Engineering of Visvesvaraya Technological University, Belagavi**, during the year 2024-2025. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for the Bachelor of Engineering degree.

Signature of the Guide

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DECLARATION

I, **Vishal Rangrej** bearing the USN **2KA21CS061** studying in the eighth semester of Bachelor of Engineering in Information Science and Engineering at Smt. Kamala & Sri. Venkappa M. Agadi College of Engineering & Technology , Lakshmeshwar, hereby declare that this internship work entitled “**CLOUD APPLICATION DEVELOPMENT**” which is being submitted by me in the partial fulfillment for the award of the degree of Bachelor of Engineering in Information Science and Engineering, from Visvesvaraya Technological University, Belagavi is an authentic record of me carried out during the academic year 2024-2025, under the guidance of **Mr. Nagaraj Baradeli**, Assoc. Prof, Department of Computer Science & Engineering, Smt. Kamala & Sri. Venkappa M. Agadi College of Engineering & Technology, Lakshmeshwar.

I further undertake that the matter embodied in the dissertation has not been submitted previously for the award of any degree by me to any other university or institution.

Place: Laxmeshwar
Date:

Vishal Rangrej

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Place: Laxmeshwar

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ABSTRACT

The internship offered an in-depth, hands-on experience in the domain of cloud application development, focusing on the end-to-end lifecycle of designing, building, deploying, and managing applications on cloud platforms. The objective was to gain a practical understanding of cloud computing principles, such as scalability, elasticity, fault tolerance, and resource optimization, while working with real-world use cases. Throughout the internship, I worked with cloud service models including Infrastructure as a Service (IaaS) and Platform as a Service (PaaS), leveraging tools and platforms such as Amazon Web Services (AWS), Microsoft Azure, or Google Cloud Platform (GCP). My responsibilities included configuring cloud environments, developing and integrating APIs, working with databases, and deploying applications using CI/CD pipelines and containerization technologies like Docker. In addition, I gained exposure to managing cloud resources, automating deployments, and applying best practices for performance tuning and security in cloud-native applications. This experience significantly enhanced my technical skills in modern development workflows, strengthened my understanding of cloud architecture, and improved my ability to collaborate within agile teams. The internship also provided valuable insights into real-world challenges of cloud application development, preparing me for future roles in the cloud and software development industry.

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