INTERNSHIP REPORT

Review-1

An internship report submitted for the partial fulfillment of academic

requirements for the award of Degree

in

BACHELOR OF ENGINEERING

In Department of

INFORMATION SCIENCE & ENGINEERING

Industry/Research Internship (21IS8I01)

Submitted by

NARENDRA BABU

4NI21IS060

Carried out at
HashedIn by Deloitte,

Bengaluru, Karnataka

Under the supervision of

Mrs. Prathibha B S

Assistant Professor,

Department of Information Science and Engineering,

NIE, Mysuru

Department of Information Science & Engineering

The National Institute of Engineering

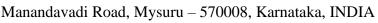(An Autonomous Institute under Visvesvaraya Technological University, Belagavi)

Manandavadi Road, Mysuru 570008, Karnataka, INDIA

2024-2025

The National Institute of Engineering, Mysuru

(An Autonomous Institute under Visvesvaraya Technological University, Belagavi)

Manandavadi Road, Mysuru – 570008, Karnataka, INDIA

Recognized by AICTE, New Delhi
Accredited by National Board of Accreditation, New Delhi
Grant-in-Aid by Government of Karnataka

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

CERTIFICATE

Certified that the **"Industry/Research Internship (21IS8I01)"** carried out in **HashedIn by Deloitte**, Bengaluru, Karnataka, by Narendra Babu, bearing USN 4NI21IS060, a bonafide student of 8th Semester has submitted this report as a part of Review-1 in partial fulfillment for the award of Bachelor of Engineering Degree in Information Science and Engineering of **The National Institute of Engineering, Mysuru,** an autonomous institute under Visvesvaraya Technological University, Belagavi during the academic year 2024-2025.

The internship report has been approved as it satisfies the academic requirements in respect of Internship Work prescribed for the award of the said Degree.

_____
Signature of the Guide

Mrs. Prathibha B S
Assistant Professor
Dept of ISE, NIE, Mysore

DECLARATION

I,Narendra Babu bearing USN: 4NI21IS060 student of 8th semester of UG program, Department of Information Science and Engineering, The National Institute of Engineering, Mysuru, hereby declare that the **Industry/Research Internship (21IS8I01)** work has been carried out in **HashedIn by Deloitte, Bengaluru, Karnataka**, by me under the guidance of **Mrs. Prathibha B S,** Assistant Professor Dept of ISE, NIE, Mysore.

This internship report is submitted to **The National Institute of Engineering**, Mysuru, (An Autonomous institute under VTU, Belagavi) as a part of Review-1 in partial fulfillment of the course requirements for the award of degree in Information Science and Engineering during the academic year 2024-2025.

Further the matter embodied in this report does confine to the Non-Disclosure Agreement (NDA) signed by me in HashedIn by Deloitte, Bengaluru, Karnataka.

Place: Mysuru
Date: 29-03-2025

Narendra Babu
4NI21IS060

<u>ACKNOWLEDGEMENT</u>

I am extremely thankful to Dr. Rohini Nagapadma, Principal, NIE, Mysuru, for providing the opportunity and everlasting motivation to carry out an internship and shape our careers.

I express my sincere gratitude to Dr. Girish, Prof. and Head, Dept. of Information Science and Engineering, NIE, Mysore, for his stimulating guidance, continuous encouragement, and motivation throughout the course of the present work.

I extend my gratitude to our Guide **Mrs. Prathibha B S ,** Assistant Professor**,** Information Science and Engineering, and Internship Coordinators **Dr. Suhaas K P**, Associate Professor and **Mrs. Mayura D Tapkire**, Assistant Professor, Dept. of Information Science and Engineering, NIE, Mysuru, for their support and guidance over the entire course of work.

I extend my thanks to my section lead, **Akash**,SDE 3 and the entire team at Hashedin by deloitte, Bengaluru, Karnataka., for their continuous support during my 15 weeks tenure at Hashedin by deloitte, Bengaluru, Karnataka.

 I take this opportunity to thank all my friends, classmates who always stood by me in difficult situations also helped me in some technical aspects, and last but not least, I wish to express my inspiration and sense of gratitude to my parents who were a constant source of encouragement and stood by me as a pillar of strength for completing this work and course successfully.

<div align="right">

Narendra Babu

4NI21IS060

</div>

<u>CONTENTS</u>

Abstract

This report presents a detailed account of my internship experience as a **Trainee Engineer** at **HashedIn by Deloitte**, undertaken through the **HU University Program** from 17th February 2025 to 24th March 2025. The internship was structured as an intensive, hands-on learning bootcamp aimed at bridging academic knowledge with real-world software development practices. Over the course of six weeks, I worked on multiple full-stack, data engineering, and AI-assisted projects that simulated enterprise-level application development.

The report highlights the key responsibilities I undertook, including backend development using **Java Spring Boot** and **.NET Core**, frontend design with **Angular**, and the use of tools like **Docker**, **GitHub**, **Postman**, and **Swagger**. I also gained exposure to **cloud deployment using Google Cloud Platform**, **CI/CD automation**, and **role-based security mechanisms**. A significant portion of the internship focused on **Data Engineering**, where I worked with **Apache Kafka**, **Apache Airflow**, and **PySpark on Databricks** to build and manage real-time and batch data pipelines.

An innovative highlight of the internship was the **LangGraph project**, where I leveraged to generate frontend components through generative AI. This experience provided insight into emerging trends in AI-driven development workflows.
Overall, the internship provided me with a strong foundation in software engineering, fostered collaborative team experience, and enhanced my ability to contribute effectively to real-world projects. This report encapsulates the technologies, projects, learnings, and professional growth gained during the internship.