

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELAGAVI, KARNATAKA-590 018**



**An Innovation/Societal/Entrepreneurship based Internship Report**  
*Submitted in partial fulfilment of the requirements for the award of  
Degree of*

**BACHELOR OF ENGINEERING  
in  
ELECTRONICS AND COMMUNICATION ENGINEERING**

by

**Mr. NIKSHEP D KOTIAN**

**USN: 4JK21EC034**

**Internship Carried out**

at

**DLITHE, Mangaluru**

**Mentor**

**Mrs. Divya A**

**Assistant Professor**



**Department of Electronics and Communication Engineering  
A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**(A unit of Laxmi Memorial Education Trust®)**

**NH-66, Kottara Chowki, Mangaluru – 575006**

**2023-2024**

**A. J. INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(A UNIT OF LAXMI MEMORIAL EDUCATION TRUST®)  
NH-66, KOTTARA CHOWKI, MANGALURU -575006.



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**CERTIFICATE**

Certified that the **Innovation/Societal/Entrepreneurship based Internship** report submitted by **NIKSHEP D KOTIAN**, bearing USN: **4JK21EC034**, is a bonafide student of **A. J. Institute of Engineering and Technology** in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report and deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the said degree.

**Mentor**  
**Mrs. Divya A**

**Internship coordinator**  
**Mrs. Divya A**

**HOD**  
**Dr. Kiran Kumar VG**  
H.O.D. - Electronics & Commu. Engineering  
A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY  
Mangaluru - 575 006, D.K., Karnataka

**Principal**  
**A. J. Institute of Engineering & Technol**  
**Mangaluru - 575 006**

**Name of the Examiner**

- Deepathu A-P**
- DIVYA A**  
06/01/24

**Signature with Date**

  
06/01/24



**DLithe Consultancy Services Pvt. Ltd.**  
CIN: U72900KA2019PTC121035



**Atal Incubation Center**  
AIC Nitte

27 November 2023

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify **Nikshap D Kotian**, bearing USN No: **4JK21EC034** from **AJ Institute of Engineering and Technology, Mangalore** has successfully completed one-month internship starting from **27-10-2023** to **27-11-2023** under the mentorship of DLithe's development team. **Nikshap D Kotian** has worked on various micro-controllers, SoC, sensors, actuators with real time web server development, integrating with IOT platforms using C, C++ programming. Exposure on various communication protocols TWI, SPI and UART was also provided with real-time project implementation of IOT application.

The domain & agile development process exposure was given along with usage of GitHub tool. During the internship, **Nikshap D Kotian** demonstrated good coding skills with good design thoughts. We wish all the best for future endeavours!



For DLithe Consultancy Services Pvt Ltd  
Director

For Atal Incubation Center, Nitte  
Dr. A P Achar – CEO, AIC Nitte

Certificate ID: NOV2023IOT2389247