

**A REPORT  
ON**

**DATA DRIVEN SOLUTION FOR  
CONNECTING EDUCATION AND  
EMPLOYMENT**

*Submitted by,*

**Mr. DHANUSH C R - 20211CSE0671**

*Under the guidance of,*

**Mr. SYED MOHSIN ABBASI**

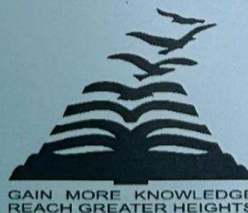
*in partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**At**



**PRESIDENCY UNIVERSITY**

**BENGALURU**

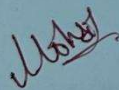
**MAY 2025**

# **PRESIDENCY UNIVERSITY**

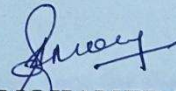
## **PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING**

### **CERTIFICATE**

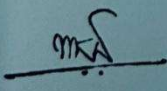
This is to certify that the Internship/Project report “**DATA DRIVEN SOLUTION FOR CONNECTING EDUCATION AND EMPLOYMENT**” being submitted by “**DHANUSH CR**” bearing roll number “**20211CSE0671**” in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.



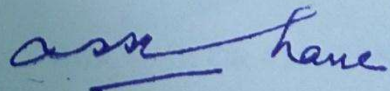
**Mr. SYED MOHISN ABBASI**  
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**Dr. ASIF MOHAMED H B**  
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Pro-Vice Chancellor - Engineering  
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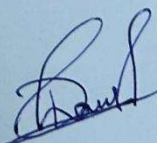
# **PRESIDENCY UNIVERSITY**

## **PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING**

### **DECLARATION**

I hereby declare that the work, which is being presented in the report entitled “**DATA DRIVEN SOLUTION FOR CONNECTING EDUCATION AND EMPLOYMENT**” in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Engineering**, is a record of my own investigations carried under the guidance of **Mr. SYED MOHSIN ABBASI, ASSISTANT PROFESSOR, Presidency School of Computer Science and Engineering, Presidency University, Bengaluru.**

I have not submitted the matter presented in this report anywhere for the award of any other Degree.



**DHANUSH CR – 20211CSE0671**

## INTERNSHIP COMPLETION CERTIFICATE



### CERTIFICATE

#### OF APPRECIATION

Proudly presented to :

**PHANUSH C R**

In recognition of his hard work and dedication in completing the internship as a **Data analytics intern** from 22/01/2025 to 22/04/2025 at UptoSkills Company.



Shivam Agrawal  
Mentor

This certificate can be verified at [hr@uptoskills.com](mailto:hr@uptoskills.com)



## ABSTRACT

In today's dynamic job market, a significant disconnect exists between the skills taught in academic institutions and those required by industries. This project addresses the growing concern of graduate unemployability by leveraging data analytics to bridge the gap between education and employment. Conducted as a Data Analyst internship project, it utilizes real-time data mining and analysis to identify the roles companies are hiring for and map those needs against college-level training opportunities.

The project was divided into two key phases:

1. **Data Mining:** Collected and categorized information from multiple online sources such as LinkedIn, Internshala, Naukri, and others to gather job and internship postings across Indian cities. Simultaneously, Training and Placement Officer (TPO) details were collected from engineering colleges in the same regions to build a comprehensive dataset.
2. **Data Analysis:** Cleaned and structured the company data using tools like Excel, Power BI, and Microsoft Azure (ADLS, ADB). The analysis involved creating dashboards, removing duplicates, transforming columns, and visualizing hiring patterns across job roles, locations, and qualification criteria.

The core insights enabled the identification of high-demand roles and skills region-wise. These insights can be used by the company to:

- Provide targeted training programs to colleges based on in-demand roles
- Connect with companies to offer skilled candidates, acting as a recruitment partner
- Facilitate corporate training based on gaps in skill readiness
- Leverage TPO contact data to expand outreach to educational institutions

By acting as a data-driven bridge between colleges and companies, the organization not only enhances placement opportunities for students but also generates dual revenue streams—through training services for colleges and recruitment services for companies.