Student's bi-weekly Diary of Internship

Student's Name : Kothari Hardik Ashokbhai_____

Enrolment Number : ET21BTCO052_____ _____

Name of Company/Organization : Edunet - Code Unnati _____

Address : _____

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Duration of two weeks : From __**01/01/2025**_____ to _**15/01/2025**_____

DESCRIPTION OF THE WORK DONE IN BRIEF

Cyber Security & IoT Security Implementation

- During the initial phase of January, I focused on strengthening my understanding of cybersecurity in IoT environments.
- **My key activities included:**
- Gaining insights into cyber threats, phishing attacks, malware, and social engineering tactics.
- Understanding the importance of data encryption, network security, and secure authentication mechanisms.
- Studying IoT security challenges, such as unauthorized access and data breaches, and identifying best practices for securing IoT devices.
- Exploring case studies on cyberattacks in IoT environments, analyzing the loopholes that led to security breaches.

- Exploring various IoT attack methodologies and implementing security best practices to mitigate risks.
- Engaging in discussions regarding real-world IoT security challenges and solutions.

- **Additionally**, we started working on a side project named "**CampusPlacements Hub**", a Training & Placement (TNP) Management System designed to streamline the college placement process. In this phase, we outlined the initial project scope and conducted requirement gathering to understand the needs of students and recruiters.

Student's bi-weekly Diary of Internship

Student's Name : Jasani Alpesh Himmatlal

Enrolment Number : ET21BTCO039

Name of Company/Organization : Edunet - Code Unnati

Address : _____

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Duration of two weeks : From __**01/01/2025**__ to __**15/01/2025**__

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Student's bi-weekly Diary of Internship

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Enrolment Number : ET21BTCO052_____

Name of Company/Organization : Edunet - Code Unnati_____

Address : _____

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Duration of two weeks : From __**16/01/2025**_____ to _**31/01/2025**_____

DESCRIPTION OF THE WORK DONE IN BRIEF

Project Allocation & Data Visualization using SAP Analytics Cloud	**Project Planning: CampusPlacements Hub**
• In the second half of January, I focused on data visualization techniques while also progressing with our **CampusPlacements Hub** project.	• During this period, we were formally assigned the **CampusPlacements Hub** project, designed to streamline college recruitment processes.
• **Key activities included:**	• **We worked on:**
• Developing interactive dashboards using SAP Analytics Cloud (SAC) to visualize placement statistics.	• Requirement Analysis: Identifying core functionalities and defining user roles (students, recruiters, and TNP admins).
• Understanding different data modeling techniques and applying them in SAC.	• System Flow Design: Mapping user interactions and structuring data flow across different modules.
• Enhancing dashboard interactivity with filters, and drill-through features.	• Database Schema Design: Structuring collections in MongoDB to manage student records, job postings, and recruiter details.
• Conducting exploratory data analysis (EDA) to extract insights from data.	• Technology Stack Selection: Finalizing React.js, Node.js with Express, and MongoDB as our development framework.

Student's bi-weekly Diary of Internship

Student's Name : Jasani Alpesh Himmatlal
Enrolment Number : ET21BTCO039
Name of Company/Organization : Edunet - Code Unnati
Address : _____
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Duration of two weeks : From __**01/02/2025**_____ to __**15/02/2025**_____

DESCRIPTION OF THE WORK DONE IN BRIEF

Advanced Data Analysis using Python:

- In the first half of February, I worked on advanced data analytics techniques.

- Performing Multivariate Analysis using Python to identify trends in Vacation Data.

- We used Pandas, NumPy, matplotlib, Seaborn and Scikit-Learn libraries for it.

- Applying correlation and regression techniques to understand influential factors in trends.

- Enhancing problem-solving skills by analyzing real-world industry case studies.

Project Development:

- **CampusPlacements Hub** With the system design finalized, we began implementation under instructor guidance. Our focus was on:

- Authentication System: Implementing secure login with MongoDB, integrating email-password and authentication.

- Frontend Development: Structuring intuitive user interfaces, ensuring smooth navigation and accessibility.

- Backend API Design: Establishing foundational Express.js routes, allowing seamless data communication.

- Database Integration: Connecting the frontend with MongoDB, ensuring efficient user session management and structured data storage.

Student's bi-weekly Diary of Internship

Student's Name :   Kothari Hardik Ashokbhai_____
Enrolment Number :   ET21BTCO052_____
Name of Company/Organization : Edunet - Code Unnati _____
Address :   _____
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Duration of two weeks :   From __**01/02/2025**_____ to _**15/02/2025**_____

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SARVAJANIK UNIVERSITY
SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY
COMPUTER ENGINEERING DEPARTMENT

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Name of Company/Organization : Edunet - Code Unnati

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