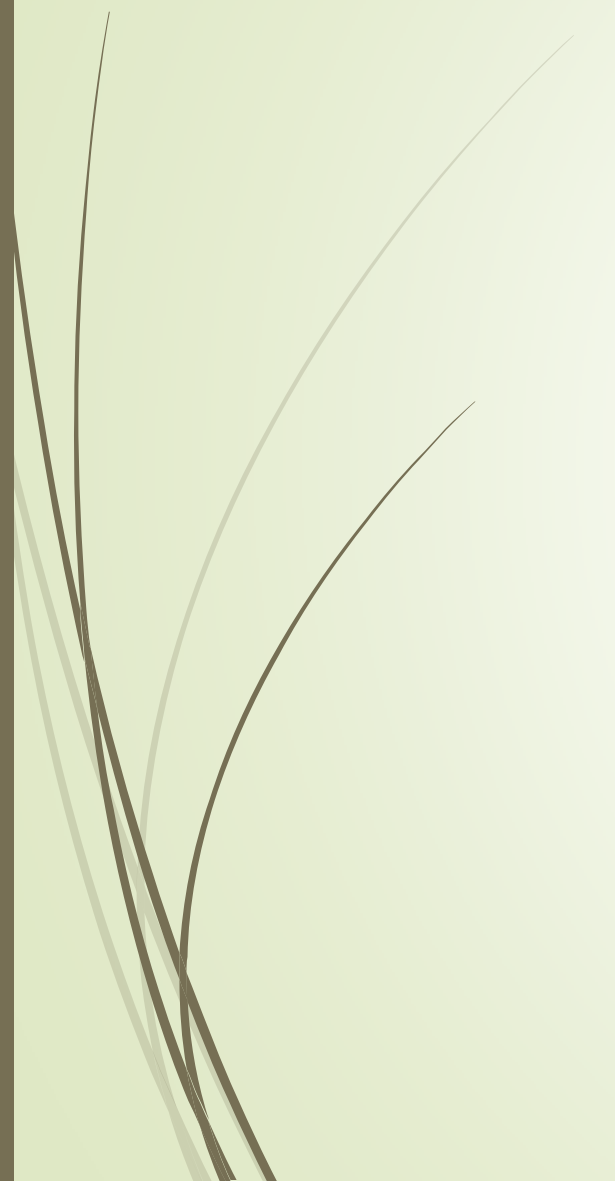# Sem 8 internship presentation

- **Name** :Dhundhalva Sanjay Keshubhai

- **Enrollment no.** : 210280107113

- **Internal Guide** : Prof. Chirag Thaker

- **Date** : 07/03/2025

Company and Industry details

Ø **Company Name** : multispan control instruments pvt ltd

Ø **Company Address** : 72B Phase 1 GIDC Vatva Ahmedabad 382445 Gujarat India

Ø **Company Website** : https://www.multispanindia.com

Ø **Department** :Web-Development

Industry Mentor Details

- **Mentor Name** : Pankaj Kantaria

- **Mentor Email** : iiot@multispanindia.com

Technologies to learn in internship

Frontend Technology:

Ø Javascript

Ø Html ,Css

Ø React

Backend Technology:

Ø Nodejs

Ø Expressjs

Ø Testing

Ø Api Handling

Database :

Ø SQL

Ø Mongodb

Internship Confirmation Letter

3/20/2025

Noc Letter

Progress of Week 1 : 20/01/25 - 24/01/25

Ø **Introduction**: During week-1 I learnt about C language from start to advance.

Ø **Structure**: A C program consists of functions, variables, and statements, with execution starting from main().

Ø **Syntax**: Uses data types (int, char, float), control structures (if, for, while), and functions for modularity.

Ø **Memory Management**: C provides manual memory handling using malloc(), free(), and pointers for efficient control.

Ø **Compilation & Execution**: C programs are compiled using compilers like GCC, converting source code into machine code.

Progress of Week 2: 27/01/25 - 03/02/25

Ø **Project Overview**: A Library Management System (LMS**)**developed in **C** to manage book inventory, borrowing, and returning efficiently.

Ø **Key Features**: Users can search, borrow, and return books, while admins can add, update, and track books using file handling for data storage.

Ø **Technologies Used**: Implemented in **C** with file handling for data persistence, structs for book and user management, and a CLI-based interface.

Ø **Functionality**: Includes book search, availability tracking, user management, and report generation for overdue books and borrowing history.

Ø **Expected Outcome**: A console-based, efficient, and scalable system improving library operations with structured data management.

Progress of Week 3: 03/02/25 - 09/02/25

Ø Learned **MongoDB, Express.js, React, and Node.js**, a popular JavaScript-based full-stack framework.

Ø **Frontend Development** – Built user interfaces with **React**, using **components, hooks, and state management** for dynamic web apps.

Ø **Backend & API Development** – Explored **Express.js** to create RESTful APIs, handle requests, and connect with databases.

Ø **Database Management** – Used **MongoDB**, a NoSQL database, to store and retrieve data efficiently for web applications.

Ø **Project Development** – Created a **basic full-stack project**, integrating frontend, backend, and database for a complete web solution.

Overview of Project

v **Bridging Natural Farmers and Conscious Consumers:**

Ø **Problem:** Farmers practicing natural farming struggle to find reliable markets, while consumers cannot easily verify the authenticity of natural farming products.

Ø **Farmer Verification:** Create a system to authenticate and track natural farming practices, providing farmers with a digital certification.

Ø **Consumer Traceability:** Implement a QR code system allowing consumers to trace product origin, farming methods, and certification details in real-time.

Ø **Direct Market Connection:** Build a digital marketplace connecting verified natural farmers directly with consumers, reducing intermediary costs and ensuring fair pricing.

Thank You