



# **KIET Group of Institutions, Ghaziabad**



## **Internship Report**

**on**

**Full-Stack Development**

**MLSA-KIET**

**Aug-Oct**

**(2024)**

**Submitted By: Piyush Raj**

**Course/Branch/Sem/Sec:**

**B-tech (CSE) V B**

**Roll No: 2200290100114**

# Microsoft Learn Student Ambassador (MLSA)

## Internship Journey

### Report on Dexter Blog App Development Project

Prepared by: Piyush Raj

---

#### Introduction

This report provides an in-depth overview of my MLSA internship journey, with a special focus on the development of my full-stack project, the **Dexter Blog App**. Designed as a dynamic platform for users to share and engage with content, Dexter was created using React, and Node.js, Firebase, Postman and showcases the skills and methodologies acquired throughout the internship.

This journey through the internship honed my technical and collaborative skills, expanded my understanding of cloud computing and cybersecurity, and provided hands-on experience with industry best practices.

The internship offered a robust curriculum that not only emphasized technical skill development but also covered essential industry practices in cloud computing, cybersecurity, and agile methodologies. In particular, building Dexter allowed me to strengthen my expertise in frontend and backend development, delve into database management, and gain a deep understanding of deployment practices using Vercel and Firebase.

# Project Overview

Dexter Blog App

Project Name: Dexter Blog App

Tech Stack: React, NodeJs ,FireBase,Tailwind,Github

Deployment Platforms: Vercel, Firebase

---

## Project Objective

The goal of the Dexter Blog App was to create a versatile and engaging blog platform that enables users to create, share, and interact with posts in real-time. Dexter was designed to provide a seamless user experience with intuitive navigation, powerful search and filtering options, and a responsive layout for accessibility across various devices. Key features include:

User Authentication: Secure sign-up and login using email and Google OAuth.

Content Management: Users can create, edit, and delete their posts, with rich text formatting options for more personalized content.

Newsletter: This feature, allowing readers to receive the latest blog posts directly in their inbox. This feature fosters regular engagement by keeping users updated on new content,

Category Filtering: Easy-to-use filters for browsing posts by categories, allowing users to find content of interest quickly.

Dynamic Content Display: Home page highlights latest blogs, and pagination ensures smooth browsing through multiple posts.

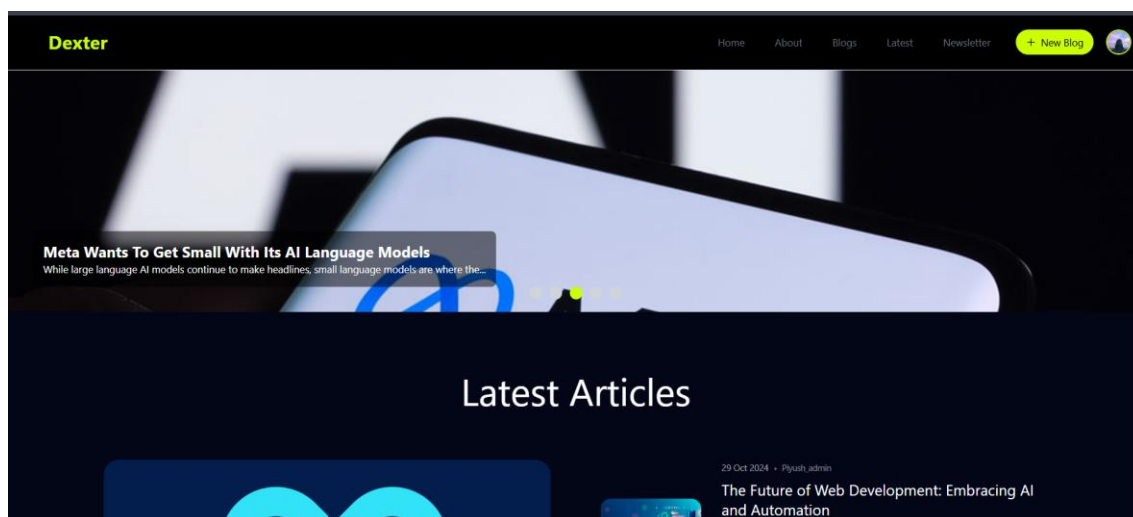
## Key Features and Functionalities

**Responsive Design:** Built with a mobile-first approach using Tailwind CSS to ensure accessibility across devices.

**Real-Time Database Interactions:** Powered by Firebase and MongoDB to handle real-time updates and secure data management.

**User-Friendly Interface:** React and Vite were used to develop a fast and responsive user interface that prioritizes ease of navigation and interaction.

**Scalable Backend:** Node.js and Express.js were utilized for backend logic, providing a robust structure for managing user requests, authentication, and API endpoints.



## Latest Articles



development • 2 min read • 29 Oct 2024 • John P. Mello Jr

### Meta Wants To Get Small With Its AI Language Models

While large language AI models continue to make headlines, small language models are where the...

[Read More](#)



29 Oct 2024 • S.Venna

### Platform Engineering: A DevOps evolution, not a replacement

Platform engineering is emerging as a key evolution within the DevOps landscape, offering a structured...

• 2 min read

[Read More](#)



29 Oct 2024 • Piyush admin

### The Future of Web Development: Embracing AI and Automation

As technology advances, the landscape of web development is rapidly evolving. With AI and automation...

• 2 min read

[Read More](#)



29 Oct 2024 • John Miller

### The Evolution of AI and Machine Learning: What We Can Expect by 2025

The Evolution of AI and ML: A Brief Look BackThe journey of AI and ML...

• 2 min read

[See more articles](#)

# Signup for free weekly newsletter

Enter your email

[Subscribe](#)

10 000+

Sharing Top tech insights and trends with over 10,000 readers and growing every day.

12 000+

Proudly empowering over 12,000 users with tech solutions that meet top industry standards

# Sign up for free weekly newsletter

Enter your email

Subscribe

10 000+

Sharing Top tech  
insights and trends with  
over 10,000 readers and  
growing every day.

12 000+

Proudly empowering over  
12,000 users with tech  
solutions that meet top  
industry standards.

## Dexter

Dexter is your go-to source for tech trends, insights,  
and innovation, keeping you informed and inspired in  
the digital age.

✉ [support@dexter.co](mailto:support@dexter.co)

📞 (+91) 6204xxxx32

[Company](#) [Blogs](#) [Latest](#) [About](#) [Privacy Policy](#)

Copyright © 2024 Dexter Inc. All rights reserved.

## The Future of Web Development: Embracing AI and Automation

As technology advances, the landscape of web development is rapidly evolving. With AI and automation...

# Latest Articles



development • 2 min read • 29 Oct 2024 •  
John P. Mello Jr.

## Meta Wants To Get Small With Its AI Language Models

While large language AI models continue to make headlines, small language models are where the...



29 Oct 2024

• S. Verma

## Platform Engineering: A DevOps evolution, not a replacement

Platform engineering is emerging as a key evolution within the DevOps landscape, offering a structured...

• 2 min read

[Read More](#)





## A Heartfelt Thank You to the MLSA Team

I would like to extend my sincerest gratitude to the Microsoft Learn Student Ambassadors (MLSA) team for providing this incredible opportunity. The support, resources, and guidance offered throughout my internship have been instrumental in my growth as a developer and in my understanding of full-stack development.

Thank you for creating a community that inspires continuous learning, encourages collaboration, and empowers students like me to turn ideas into impactful projects. I am deeply appreciative of the MLSA program and the invaluable experiences it has offered. This journey has significantly enriched my skill set, broadened my horizons, and prepared me for future challenges in the tech industry.

Thank you, MLSA team, for an unforgettable experience!

