# Smart Coders Community

## 📘 Project Overview

Smart Coders Community is a modern web platform designed to help students and beginner developers learn, explore, and interact with various technologies in one place. The project focuses on creating a community-driven environment where users can learn about Web Development, Machine Learning, Web3, and more — supported by an integrated AI chatbot and data visualization tools.

## 🚀 Features

* AI-powered Chatbot integrated via n8n for interactive learning.
* PDF Data Visualizer built using Python for document-based insights.
* Firebase Authentication for secure user login.
* Firestore Database for storing and managing user data.
* Modern Frontend built with React for a smooth user experience.

## 🧠 Tech Stack

Frontend: React (with Vite and Tailwind CSS)

Backend / Automation: n8n Workflow Automation

Database: Firebase Firestore

Authentication: Firebase Auth

Data Visualization: Python (Matplotlib / Pandas)

AI Integration: Chatbot via n8n and external APIs

## 💡 Skills Learned

* Frontend Web Development (React, Tailwind CSS)
* Database Management (Firestore)
* Authentication and Security (Firebase Auth)
* AI Workflow Integration (n8n)
* Data Visualization in Python
* Project Structuring and Documentation

## 📎 Conclusion

The Smart Coders Community project represents the collaboration between technology and learning. It enables users to learn coding, interact with AI, and visualize data efficiently — making it an ideal project for demonstrating full-stack development and intelligent automation capabilities.