

# VIJAY KUMAR REDDY ILLURU

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## WORK EXPERIENCE

### Internship under IBM Edunet

June 2024 - August 2024

Front End Developer (Virtual) — HTML5, CSS, JavaScript, Git

- Worked on enhancing expertise in **HTML5, CSS, JavaScript** strengthening frontend development capabilities and modern web development practices.
- Implemented a **fully responsive** portfolio with navigation between pages and to ensure compatibility between devices and a smooth user experience.

## PROJECTS

### PDF Question Answering System using LangChain and Ollama

Aug 2025 – Oct 2025

- Built a document-based Question Answering system using LangChain, ChromaDB, and Ollama embeddings, supporting PDF ingestion, text extraction, intelligent chunking, and vector-based storage for efficient retrieval.
- Implemented a RetrievalQA pipeline integrated with Ollama LLM (Llama 3.2) to enable semantic search and context-aware answers across multiple documents.
- Optimized retrieval accuracy and system scalability by tuning chunk sizes, overlap strategies, and embedding configurations, enabling efficient multi-document ingestion and faster, more relevant query responses.

### Crop Recommendation System using Machine Learning

July 2025 - September 2025

- Built a machine learning model to recommend crops based on soil (**N, P, K, pH**) and weather (**temperature, humidity, rainfall**) parameters, using **Python, Pandas, and Scikit-learn**.
- Developed a **Random Forest model** achieving **85%** prediction confidence and accurate crop recommendations for diverse soil and climate conditions.
- Deployed the application with **Streamlit** providing a web-based interface for farmers to get real-time recommendations.

### Amazing Andhra – Ultimate Tourist Guide

January 2025 to June 2025

- Developed a full-stack **tourist guide web application** using **React.js, Node.js/Express**, and **MongoDB**, enabling users to explore destinations, view details, and plan personalized trips efficiently.
- Implemented dynamic **search, filtering, and review features** allowing users to share experiences and access authentic feedback on tourist destinations.
- Structured MongoDB schemas and implemented efficient CRUD operations for destinations, users, and reviews, improving data consistency and backend response times.

## EDUCATION

2022 - present Bachelor's Degree at **SRM University**

(GPA: 8.62/10.0)

2020 - 2022 Class 12 Andhra Pradesh State Board

(969/1000)

## TECHNICAL SKILLS

- **Programming:** C , C++, Java, Python
- **Web Development:** HTML5, CSS3, JavaScript, React JS
- **Databases:** MySQL, MongoDB
- **Tools & Platforms:** Git, GitHub, VS Code, Render, Postman
- **Core Concepts:** Data Structures & Algorithms, OOP, OS, CN, DBMS, Machine Learning,

## CERTIFICATIONS AND CERTIFICATES

- Associate NodeJS Developer Exam - MongoDB
- Full Stack Course by Udemy
- Joy of Computing Using Python by NPTEL

## ACHIEVEMENTS

- Secured a rank of **6094** in EAPCET among 200,000+ candidates, and awarded **100%** scholarship at **SRM University AP**.
- Solved 300+ problems on **LeetCode** and 150+ on **CodeChef**.