

# Paiavulla Nikhil

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## SUMMARY

MERN Stack Web Developer skilled in building responsive and scalable web applications. Contributed to the **GKVK Project (World Bank-funded)** by developing data visualization dashboards and a voice-enabled chatbot for farmers. Built **ProjX**, a project management platform, and a **Heart Disease Prediction Model (KNN)** with **88.59% accuracy**. Certified in **Frontend Development (IBM)** and **Full-Stack Development (Udemy)**. Eager to apply technical skills and learn through impactful internship opportunities.

## EDUCATION

**Dayananda Sagar College of Engineering**

*Bachelor of Engineering in Computer Science and Design; CGPA: 9.6*

Bangalore, India

*Oct. 2023 – Present*

## EXPERIENCE

**GKVK – (World Bank Funded)**

*Frontend Developer Intern*

Bangalore, India

*Aug. 2024 – Present*

- Implemented graphical visualization of **Crop Analysis** and **Behavioral Analysis** data, improving data interpretation efficiency.
- Processed and prepared large datasets, enabling accurate analysis and reporting with approximately 95% data reliability.
- Developing a **voice-enabled chatbot** for farmers to query soil nutrient percentages (N, P, K) and receive actionable guidance.

## PROJECTS

**PlanGrid** | *Flask, MongoDB, React, Tailwind CSS, XGBoost*

🔗 [GitHub](#) | 🌐 [Live Demo](#)

- Developed a **full-stack web platform** to forecast and track materials for power grid projects, enabling efficient procurement and reduced delays.
- Built **Flask-based APIs** integrated with **machine learning (XGBoost – R<sup>2</sup> 90%+)** for demand forecasting and insights.
- Designed and deployed a responsive **React + Tailwind** dashboard with KPIs, charts, and trends visualization.

**ProjX: Project Management Tool** | *MERN Stack, JWT, Recharts*

🔗 [GitHub](#) | 🌐 [Live Demo](#)

- Built a project management app that improved **task efficiency by approximately 30%** through Kanban boards and dashboards.
- Implemented **workspaces, subtasks, and commenting** for better collaboration.
- Integrated **token-based authentication** ensuring secure, reliable access with approximately 95% uptime.

**Heart Disease Prediction** | *Flask, Scikit-learn, Pandas, Matplotlib*

🔗 [GitHub](#) | 🌐 [Live Demo](#)

- Developed a **KNN-based prediction model** achieving **88.59% accuracy** on test data.
- Performed **data cleaning, feature scaling, and exploratory data analysis** to identify key health indicators.
- Visualized key features like **age, cholesterol, and blood pressure** using **Matplotlib** and **Seaborn**.

## SKILLS

**Languages:** JavaScript, Python, Java

**Web Technologies:** HTML, CSS

**Frameworks & Libraries:** React.js, Node.js, Express.js, Flask, Tailwind CSS, Bootstrap, GraphQL

**Databases:** MongoDB, MySQL, PostgreSQL

**Machine Learning:** NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow

**Tools:** Git, GitHub, Postman

**Core Skills:** MERN Stack Development, RESTful APIs, Model Training,

## CERTIFICATIONS

**The Complete Full-Stack Web Development Bootcamp** – Udemy

**Programming Foundations with JavaScript, HTML, and CSS** – IBM