

# Dinesh Kumar Sahu

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## EDUCATION

### SAGE University Bhopal

B.Tech. (Pre-Final Year) in Computer Science and Engineering

SGPA: 7.73 (4<sup>th</sup> Semester)

2024 – Present

## RELEVANT COURSES / TECHNOLOGIES

**Programming Languages:** C++, Java

**Frontend Development,** Boot strap, HTML-5, CSS3, XML

**Backend Development:** Java

**Databases:** MongoDB, MySQL, Firebase

**Developer Tools/ Operating Systems:** Git / GitHub / VS Code / Windows

**Relevant Courses:** Data Structures / Algorithms / DBMS / OOPS / Operating Systems

**Languages:** English / Hindi (Native)

## Experience

### Prodigy Infotech (Virtual Intern)

- Designed and developed an Android-based Tic Tac Toe game with a two-player mode, achieving over 95% positive user feedback for its engaging and interactive experience.
- Created a user-friendly interface, ensuring intuitive navigation and seamless gameplay.
- Implemented robust game logic in Java using Android Studio, maintaining a consistent frame rate of 60 FPS for smooth and responsive performance.
- Conducted extensive performance testing, identifying and resolving the top three stability issues, reducing app crash rates by 90% and improving reliability metrics significantly.

## PROJECTS

### Smart Kisan Application /XML, Java, Firebase & IOT devices and sensors

- Built an Android app to monitor real-time sensor data, including soil moisture, temperature, and humidity, improving farm management for over 150 farmers.
- Seamlessly integrated IoT sensors with Firebase, enabling live data retrieval and display, enhancing usability for 100+ farmers and reducing manual monitoring by 60%.
- Automated device control, such as water pumps, based on predefined sensor thresholds, leading to a 30% reduction in water usage and improving irrigation efficiency.
- Designed an intuitive, accessible interface with low-latency synchronization, ensuring smooth performance even in low-connectivity areas with 99% uptime.

### E- Commerce / XML, Java, Firebase

- Developed an Android app that allows farmers to trade seeds, pesticides, fertilizers, and crops with real-time price updates, reaching over 500 active users within the first three months. Integrated Razorpay for secure transactions.
- Designed an intuitive, low-bandwidth-friendly interface, optimized to perform efficiently in rural areas with limited internet connectivity, resulting in a 40% increase in user retention.

### Sage Times Utility application / XML, Java, Firebase

- Developed an Android app that enables over 1,000 students to seamlessly access assignments, notes, PYQs, and faculty details in a centralized platform.
- Introduced a project ideas section and a gaming module, increasing user engagement by 30% and enhancing creativity among students. Integrated Razorpay for secure donation.
- Designed a responsive, user-friendly interface, ensuring smooth functionality and fast performance across 95% of Android devices.

## Certificates

- Python Programming from Great Learning
- C++ Programming from Great Learning
- Programming in Java from NPTEL

[Certificate](#)

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