

# Saurash Preet

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## Education

Manipal University Jaipur (2022 - 2026) | B. Tech, Computer and Communication Engineering

## Internships

### Rourkela Steel Plant (SAIL) – Trainee (Jun 2024 - Jul 2024)

- Managed and optimized **MySQL databases** to improve query efficiency and system performance.
- Gained hands-on exposure to **Oracle Database** administration and performance tuning.
- Learned the fundamentals of **SAP ERP**, including modules relevant to enterprise resource planning.

### Corizo – Cloud Computing Intern (Jun 2023- Jul 2023)

- Gained hands-on training in **cloud computing concepts and deployment strategies**.
- Worked on practical **cloud-based projects**, including hosting applications and managing resources.
- Developed understanding of **scalable infrastructure** and modern cloud services.

### Coincent – Web Developer Intern (May 2024- Jun 2024)

- Contributed to **front-end development** for client projects, ensuring responsive design.
- Collaborated with the team to improve **user experience** and optimize performance.
- Managed technical setups, ensuring smooth broadcasting and audience engagement.

## Projects

### Farmland – Mobile App for Direct Market Access for Farmers (React Native, Node.js, MongoDB)

- Built a mobile app (React Native, Node.js, MongoDB) enabling farmers to connect directly with buyers, featuring product listings and secure transactions without third-party involvement.

- Implemented user authentication, secure data handling, and in-app chat for seamless communication between farmers and buyers.

### **Crop Price Prediction Using AI (Python, ML (Linear Regression, Random Forest, LSTM))**

- Developed ML models (Linear Regression, Random Forest, LSTM) to forecast crop prices, with LSTM delivering the highest accuracy for time-series data.
- Built an interactive dashboard for crop price forecasting, incorporating data preprocessing, visualization (Matplotlib, Seaborn), and actionable insights from historical and environmental datasets.

### **Chat Application (MERN Stack, Socket.io)**

- Developed a real-time chat application using the MERN stack with secure authentication (JWT), persistent storage in MongoDB, and instant messaging powered by Socket.io.
- Designed a responsive React front-end ensuring smooth user experience across devices with support for multiple chat rooms.

## **Technical Skills**

- Programming: JavaScript, Python, C
- Web Development: React, Node.js, HTML, CSS, jQuery
- Databases: MongoDB, MySQL, SQL
- Tools & Platforms: Firebase, Socket.io, GitHub, Cloud Platforms
- Other: SAP, Oracle Database, Machine Learning, Data Analysis

## **Certifications**

- Deep Learning with Python – Udemy
- Wireless Communications for Everybody – Coursera
- Vocational Training in Computer & IT (Oracle & SAP) – SAIL Rourkela

## **Volunteering**

- Panacea, MUJ – Technical Head & Webmaster (2023 – 2024)
- Glitch eSports Society – Production Lead (2023 – 2025)