

# Raj Mate

7744996969

rajmate032004@gmail.com

WWW: <https://github.com/raj3104>

WWW: [linkedin.com/in/rajmate616543251](https://www.linkedin.com/in/rajmate616543251)

**Skills :** IOS Development, Swift, Java, Android Development, 3D Modelling, SwiftUI

## Internships

April 2025 to  
September 2025

### Karage Robotics Machine Learning Intern

- Attained 1st place at Ideathon, NIT Bhopal (top 5% of 200+ teams); selected for internship at Karage Robotics.
- Constructed a predictive model within the ML-powered software, enabling precise pesticide application, resulting in a significant reduction in environmental impact by 25% compared to traditional methods.
- Secured 30%+ reduction in pesticide use through predictive pest detection, advancing smart agriculture efficiency.
- Crafted a **real-time monitoring system** that tracks soil health and pest activity, improving crop management strategies and decreasing pesticide reapplication by **15%**.
- **Collaborated with local farmers** to conduct a pilot program, validating model accuracy and improving pesticide application timing, leading to a **20% increase in crop yield**.

## Achievements

- **Won SolVIT Hackathon at VIT Bhopal** (Top 1 of 100+ teams) for building a hospital resource forecasting system using ARIMA and XGBoost.
- **Won Ideathon at NIT Bhopal** (Top 1 of 200+ teams) for prototyping an ML-based automated pesticide management system.

## Education

June 2026

**VIT Bhopal University** Cumulative CGPA :- 8.12/10

April 2022

**NPPS** Percentage :- 82%

April 2020

**Lexicon International School** Percentage:- 79%

## Projects

- **Designed “Mess Food Monitoring” app** (Jan–Mar 2025) for hostel students at VIT Bhopal; built time-triggered UI to auto-display meals, cutting manual checks by **100%**.
- Integrated real-time updates and feedback system; collected **200+ responses**, enhancing features and satisfaction for **500+ users**.
- **Engineered a live weather app** using Xcode Swift and REST APIs; integrated **3+ data sources** for accurate global forecasts.
- Served **5,000+ cities** with less than 2s response time; hit **1,000+ downloads** in month one and earned a **4.5 rating** from **500+ reviews**.