

# SHYAM SUNDAR BISWAS

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## EDUCATION

**Rajiv Gandhi Institute of Petroleum Technology** 2022 – 2026  
(An Institute of National Importance)

B.Tech - Electronic Communication Engineering Amethi, Uttar Pradesh

**Rajiv Gandhi Institute of Petroleum Technology** 2022 – 2026

B.Tech - Computer Science Engineering (MINOR) - CGPA - 8.5 Amethi, Uttar Pradesh

**Kendriya Vidyalaya** 2021

Intermediate PCM with Computer Science - Percentage - 90 Kanchrapara, West Bengal


## COURSEWORK / SKILLS

- Data Structures
- Algorithms
- DBMS
- COA
- Android Development
- UI/UX
- Machine Learning
- Artificial intelligence
- Digital Electronics

## PROJECTS

**Gemini-Powered Plant Flower Recognition App**  | Kotlin Jetpack Compose, Gemini, **on going**

- **Plant & Flower Recognition App:** Develop an Android app using Firebase ML Kit for real-time plant and flower identification.
- **Gemini AI Integration:** Seamlessly integrated Gemini AI, enhancing the app's functionality by providing additional plant information—habitat, growth patterns, and medicinal properties.
- **Technologies/Frameworks used:** Android Studio, Kotlin Jetpack Compose, MVVM Architecture, GEMINI Ai, Firebase ML kit.

**Developed a Mobile App for Farmers**  | Kotlin Jetpack Compose, Retrofit and Firebase **2024**

- Developed a farmer-centric mobile app for easy access to government schemes, Loan policies, etc.
- Implemented MVVM architecture with Firebase to enhance app performance and responsiveness; achieved an increase in app stability.
- **Technologies/Frameworks used:** Android Studio, Kotlin Jetpack Compose, MVVM Architecture, Retrofit, Firebase, JSON

**Developed a Weather App**  | Kotlin Jetpack Compose, Retrofit and Firebase **2024**

- Built a dynamic weather app leveraging Kotlin and Jetpack Compose for modern UI, with Retrofit for API communication.
- Integrated OpenWeatherMap API to display real-time weather data, ensuring efficient API handling and user-friendly interface.
- **Technologies/Frameworks used:** Android Studio, Kotlin Jetpack Compose, MVVM Architecture, Retrofit, Firebase, JSON, OpenWeatherMap API.

**Music App UI (Kotlin Jetpack Compose)**  | Kotlin, Scaffold, RoomDatabase **2023**

- Designed and implemented a sleek and user-friendly music app UI using Kotlin Jetpack Compose. The app features a modern interface, smooth animations, and intuitive navigation.
- **Scaffold and Navigation:** Utilized the Scaffold component to create consistent app layouts, including top app bars, drawers, and bottom navigation.

## TECHNICAL SKILLS

**Languages:** C, C++, Python, MySQL, Kotlin, Matlab

**Technologies/Frameworks:** Firebase, Room Database, MySQL, Figma, Android SDK, MVVM Architecture, Jetpack Compose, Retrofit, Google Map API, Git, RESTful APIs, Android SDK, Material Design, MVVM architecture, XML

**Developer Tools:** Android Studio, Google colab, VS Code

## ACHEIVEMENTS

- Solved **200+** Problems across **Leetcode** 
- Advanced to the prototyping stage in the Google Map hackathon. 
- Ranked among the Top 16 teams in the World Robotic Championship organized by AICRA. 