

## BIDHAN MANNA

+91-7431802843 | [mannabidhan036@gmail.com](mailto:mannabidhan036@gmail.com)

[Bidhan Manna LinkedIn](#) | [jishu-gits \(github.com\)](#)

### EDUCATION

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- **VIT Bhopal University** (August, 2022)  
B. Tech CSE(Specialization in Gaming Technology) | CGPA: 7.5

### SKILLS

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- **Languages:** Java, C++, Python, SQL, HTML, CSS.
- **Tools:** Git, GitHub, Postman, MS Excel, Canva, Figma.
- **Frameworks/Technologies:** Flutter, Android Development, REST API, DBMS.
- **Database:** MySQL, MongoDB.

### PROJECTS

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#### AI-Powered Quiz Generator (Java/ML Integration)

- Developed Java Spring Boot application that accepts PDF inputs and generates quizzes via integrated Python ML pipeline
- Implemented PDF-to-image conversion using PyPDF2 and text extraction with Granite 3.2
- Created summary generation using Hugging Face transformers and question generation with NLP techniques
- Containerized system with Docker achieving 90% question relevance accuracy

#### AgriDrone

(April 2025)

- **Optimized Precision Agriculture:** Developed and deployed 4 ML models for crop health, weed detection, irrigation, and crop recommendation, achieving up to **98.9% accuracy** in crop prediction tasks and improving decision-making for over **1,000 farmers**.
- **Enhanced Detection Efficiency:** Utilized DenseNet-121 architecture for weed detection, achieving a detection accuracy of **90.7%**, significantly reducing false positives and enabling targeted interventions to improve crop yields.
- **Integrated Smart Drones:** Designed a drone-based image processing system capable of analyzing **100+ hectares per day**, providing real-time insights into pest infestations and soil health using Raspberry Pi and IoT sensors.
- **Showcased Impact:** Demonstrating a **reduction in resource waste** and **improvement in crop monitoring efficiency** through smart farming technologies.

### EXTRA-CURRICULARS AND ACHIEVEMENTS

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#### ACHIEVEMENTS

- **Engaged in a disciplined 100 Days of Code challenge** centered on Java and Data Structures & Algorithms; **tackled 100+ coding challenges**, leading to the creation of a personal portfolio showcasing enhanced coding proficiency.
- **Cyber-Security Awareness Program** – Completed a **5-day training** by **TheCyberDelta, Hackersvilla & GeeksForGeeks**, covering **cyber threats and security best practices**.
- **ISL Winter Internship** – Completed a **one-month training** at **India Space Lab (Dec 15, 2024 – Jan 15, 2025)**, focusing on **space technology and satellite systems**.

#### EXTRACURRICULAR

- **Co-Lead of Social Media Team VRGC** - **VIT Bhopal University** July 2023 – Ongoing
- Led strategic planning sessions within the **PR Team at VIT Bhopal's VRGC Club**; established relationships resulting in three new sponsorships that provided valuable resources to enhance club operations.

### ADDITIONAL INFORMATION

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- **Hobbies-** Tech Trendy, Gaming, Cooking, Trained in classical Singing and guitar, Photography
- **Languages:** English (Professional working proficiency), Hindi (Native or bilingual proficiency)