

BIDHAN MANNA

+91-7431802843 | mannabidhan036@gmail.com

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

EDUCATION

- **VIT Bhopal University** (August, 2022)
B. Tech CSE(Specialization in Gaming Technology) | CGPA: 7.77

SKILLS

- **Languages:** Java, C++, Python, SQL, HTML, CSS, C#.
- **Tools:** Git, GitHub, Postman, MS Excel, Canva, Figma.
- **Frameworks/Technologies:** Flutter, Android Development, REST API, DBMS.
- **Database:** MySQL, MongoDB.
- **Game Engines:** Unity 3D.

PROJECTS

AI-Powered Quiz Generator (Java/ML Integration) (June 2025)

- 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

ACHIEVEMENT

- **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**.

CERTIFICATIONS

- Intro to AR/VR/MR/XR: Technologies, Applications & Issues, **University of Michigan, Coursera** (Dec 24, 2023)
- Java Foundation Associate, **Oracle Corporation** (Aug 04, 2025)
- Introduction to Cloud Computing, **Simplilearn by SkillUp** (27 Apr, 2025)
- Cyber Security Analyst, **IBM Career Development Program** (May 22, 2025)

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

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