

## BIDHAN MANNA

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### EDUCATION

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

### SKILLS

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- **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

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#### 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

#### Procedural Dungeon Generator (September 2025)

- Design a **multi-staged hybrid procedural dungeon generator** integrating **rectangular rooms, handcrafted prefabs, and BFS cave expansion**, achieving **100% connectivity** across 100 test runs.
- Implemented **evaluation metrics and visualization tools** (CSV analytics, plots, and animated GIF/MP4 generation) to quantify **path length (~45 tiles)** and **rooms diversity (prefabs 20%, caves 30%)**.
- Developed an **interactive Jupyter Notebook demo** with sliders and dropdowns enabling real-time control of **dungeon parameters and generations stages** for research and experimentation.

### EXTRA-CURRICULARS AND ACHIEVEMENTS

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#### 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

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- **Hobbies-** Tech Trendy, Gaming, Cooking, Trained in classical Singing and guitar, Photography
- **Languages:** Bengali, English, Hindi