BIDHAN MANNA

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EDUCATION

- **VIT Bhopal University**   *(August, 2022)*
  B. Tech CSE(Specialization in Gaming Technology) | CGPA: 7.86
- **Vivekananda Mission High School**   *(May, 2021)*
  Higher Secondary | Percentage: 67.2%

SKILLS

- **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.
- **Core Competencies:** Foundation of Algo, Data Structures Algorithms, Software Development, Operating Systems.

PROJECTS

EDU Nova   *(November 2024)*

- **Gamified Abacus Learning Modules** – Developed and integrated interactive, gamified abacus modules that encouraged students to complete an average of **3 daily challenges**, leading to **consistent engagement** and measurable progress in abacus methodologies.
- Engineered **AI-powered adaptive learning feature** within abacus game, automatically adjusting difficulty based on student performance, resulting in 2x faster learning rate and highest user satisfaction score across all features.
- Crafted an intuitive, **real-time analytics dashboard** to monitor **5+** key performance indicators, including student engagement levels, providing educators with actionable insights that directly enhanced **20%** improvement in learning outcomes**.**

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

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

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