Diya Mittal

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Education

VIT Bhopal University   **Sep. 2022 – Sep. 2026**
Bachelor of Technology in Computer Science   *Bhopal, Madhya Pradesh*

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Internet Technology
- Systems Programming
- Computer Architecture

Experience

Xbox Game Camp Asia   **Remote**
Selected Team Member (Top 4 teams in India)   *Feb 2024 – May 2024*

- Selected from 500+ applicants **to lead** the technical development of "Sprits' Solace," a puzzle-adventure game using **Unity** and **C#**.
- Orchestrated gameplay logic in an **Agile** environment, conducting weekly sprints and coordinating tasks to achieve 100% on-time delivery of game milestones.
- Engineered a cohesive player experience by integrating 10+ unique narrative events, strengthening collaboration between design and system implementation teams.

GirlScript Summer of Code   **Remote**
Open Source Contributor   *Oct 2023 – Dec 2023*

- Collaborated with distributed cross-functional teams to optimize frontend performance and fix UI/UX bugs.
- Utilized **Git** and **GitHub** for version control, managing merge conflicts, and submitting multiple Pull Requests (PRs).
- Contributed to open-source repositories ensuring code quality and adherence to community standards.

Projects

Myntra Aura | *Python, OpenCV, scikit-learn, Flask*   **October 2025**

- Developed a machine-learning model achieving 85% accuracy in analyzing skin undertones to suggest personalized clothing palettes.
- Implemented CNN feature extraction and color-space normalization, reducing lighting-based classification errors by 30%.
- Deployed via Flask web interface enabling selfie upload and instant recommendations.
- Demonstrated integration of data preprocessing, feature engineering, and interpretability for user trust.

Moot Court Simulator | *Node.js, React, MySQL, WebSocket*   **January 2025**

- Developed a real-time multi-user simulation system replicating courtroom procedures for law **students**.
- Engineered session synchronization and timed role actions using WebSockets.
- Implemented a persistent state mechanism to maintain case flow, successfully handling 100% of data recovery during forced disconnect scenarios.

Lexi Track | *React, PHP, MySQL*   **November 2024**

- Designed and implemented Role-Based Access Control (RBAC) for 3 distinct user **hierarchies**, ensuring zero unauthorized data access.
- Developed RESTful APIs handling data validation and transaction integrity, ensuring 99.9% data consistency during concurrent updates.
- Optimized MySQL queries and indexing, achieving ∼40% faster search and **retrieval** for case records.

Technical Skills

Languages: C++, Python, JavaScript, SQL (MySQL), PHP, HTML/CSS
Frameworks & Libraries: React.js, Node.js, Flask, OpenCV, Tailwind CSS
Developer Tools: Linux, Git, GitHub, Docker, Postman, VS Code
Concepts: Agile Methodologies, REST APIs, MVC Architecture, CI/CD Pipelines, RBAC

Extracurricular

E-Cell IIT Bombay   **Remote**
Marketing & Outreach Committee   *Aug 2023 – Jan 2024*

- Supported event campaigns leading to **30%** growth in workshop participation.
- Coordinated with student bodies to increase engagement and brand visibility.