

ADITI DESAI

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OBJECTIVE

To obtain a challenging role in a well-established organization where I can apply my skills, expand my knowledge, and contribute to the organization's growth while fostering my own personal and professional development.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science and Engineering (AIML) **Expected Graduation: 2026**

KIT's College of Engineering, Kolhapur
Chhatrapati Shivaji University, Kolhapur

CGPA: 9.5 (First Class with Distinction)

Higher Secondary Certificate (HSC) **2022**
Sadhana Junior College of Science, Gadhinglaj Percentage: 90%

Secondary School Certificate (SSC) **2020**
Senapati Prataprao Gujar Highschool, Nesari Percentage: 96.80%

SKILLS

- **Programming Languages:** C, C++, Java, TypeScript
- **Client-Side Web Development:** Angular 18, Bootstrap, Angular Material
- **Backend Development:** Spring Boot, Node.js (Express.js)
- **Database Management:** MySQL, MongoDB (Compass)
- **Tools and Platforms:** Git, GitHub, Postman, VS Code, IntelliJ IDEA
- **Soft Skills:** Problem Solving, Adaptability, Collaboration, Teamwork, Analytical Thinking, Leadership

TECHNICAL PROJECTS

Generalized Data Structures Library *Technology: C++*

- Developed a comprehensive library providing generic implementations of major data structures.
- Implemented fundamental and advanced operations on linear and non-linear data structures.
- Designed with generic programming principles to support multiple data types.
- Followed object-oriented design patterns for modularity and maintainability.
- Optimized performance and memory management for efficient data processing.
- Ensured extensibility for easy integration with other projects.

Customized Database Management System *Technology: Java*

- Developed a customized virtual DBMS with core SQL functionalities.
- Utilized Java's Collection Framework for efficient in-memory data storage.
- Implemented SQL-like operations including table creation, insertion, retrieval, and aggregate functions.
- Designed update and modification functionalities for dynamic data manipulation.

- Simulated SQL operations programmatically for deeper DBMS understanding.
- Ensured modularity and scalability for future enhancements.

Brain Tumor Detection using CNN

Technology: Deep Learning, CNN, Tensorflow,

- Developed a CNN model to classify brain tumors (glioma, meningioma, pituitary, no tumor) from MRI images.
- Built and deployed the backend using FastAPI for real-time image classification.
- Used OpenCV and NumPy for image preprocessing (decoding, resizing to 150x150).
- Implemented REST API with CORS support for frontend-backend communication.
- Returned prediction results in JSON format for easy integration with web applications.

TECHNICAL HIGHLIGHTS

- **Client-Side Development:** Proficient in Angular 18 for building dynamic and scalable web applications.
- **Amazon Web Services (AWS S3):** Knowledge of AWS S3 for web hosting and cloud storage solutions.
- **Web Deployment:** Expertise in deploying applications using AWS S3 for high availability and performance.
- **Server-Side Development:** Experience with Node.js and Express.js for backend development.
- **Unit Testing:** Familiar with Jasmine and Karma for testing Angular applications.
- **Front-End Development:** Skilled in Material Design, Bootstrap, and Tailwind CSS for responsive UI design.
- **Database Management:** Knowledge of NoSQL databases, specifically MongoDB,MySQL
- **Version Control:** Proficient in Git and GitHub for collaborative development.

CERTIFICATES

- **Logic Building (LB)** – Marvellous Infosystems,Pune(2024)
- **Angular Development** – Marvellous Infosystems,Pune(2024)