

# 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

<b>Bachelor of Technology (B.Tech) in Computer Science and Engineering (AIML)</b> KIT's College of Engineering, Kolhapur Chhatrapati Shivaji University, Kolhapur	<b>Expected Graduation: 2026</b> CGPA: 9.5 (First Class with Distinction)
<b>Higher Secondary Certificate (HSC)</b> Sadhana Junior College of Science, Gadchinglaj	<b>2022</b> Percentage: 90%
<b>Secondary School Certificate (SSC)</b> Senapati Prataprao Gujar Highschool, Nesari	<b>2020</b> 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

<b>Generalized Data Structures Library</b>	<i>Technology: C++</i>
<ul style="list-style-type: none"><li>Developed a comprehensive library providing generic implementations of major data structures.</li><li>Implemented fundamental and advanced operations on linear and non-linear data structures.</li><li>Designed with generic programming principles to support multiple data types.</li><li>Followed object-oriented design patterns for modularity and maintainability.</li><li>Optimized performance and memory management for efficient data processing.</li><li>Ensured extensibility for easy integration with other projects.</li></ul>	

<b>Customized Database Management System</b>	<i>Technology: Java</i>
<ul style="list-style-type: none"><li>Developed a customized virtual DBMS with core SQL functionalities.</li><li>Utilized Java's Collection Framework for efficient in-memory data storage.</li><li>Implemented SQL-like operations including table creation, insertion, retrieval, and aggregate functions.</li><li>Designed update and modification functionalities for dynamic data manipulation.</li></ul>	

- 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

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- **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

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