

Aritri Mangal

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EDUCATION

Vellore Institute of Technology <i>B. Tech in computer science and engineering specialisation in Health Informatics – 8.02 CGPA</i>	Bhopal, MP September 2022 – Present
BNV National School <i>Class XII – 77.8%</i>	Kolkata, WB April 2021 – May 2022
Ramakrishna Mission Vidhya Bhawan <i>Class X – 89.5%</i>	Kolkata, WB April 2019 – May 2020

DOMAIN SKILLS

Full stack, MYSQL, Python, MATLAB(Basics), JAVA, DSA.

PROJECTS

Sanket <i>Frontend developer</i>	<i>June 2023 -September2023</i>
<ul style="list-style-type: none">Sign language recognition uses computer vision and machine learning to translate hand gestures into text or speech, helping bridge communication gaps for the deaf and hard-of-hearing community.Python is commonly used for backend logic, data processing, and machine learning tasks; libraries include TensorFlow, OpenCV, and Scikit-learn for gesture detection, feature extraction, and classification.JavaScript enables real-time interaction in web applications, such as capturing webcam input and displaying recognized gestures.HTML/CSS are used for front-end development, creating user-friendly interfaces to display inputs and outputs, and to ensure accessibility and usability.	
News Fetching Web Application <i>Lead developer</i>	<i>April 2024 - July2024</i>
<ul style="list-style-type: none">The web interface uses an API to fetch news articles <i>in real time</i> from external or self-hosted news services.When a user visits or interacts with the site (e.g., searches, selects a category), the frontend (JavaScript) makes an HTTP request to the backend (Node.js or Java), or directly to a third-party news API.The backend/server then sends a GET request to the news API, including parameters such as keywords, categories, country, or API key.	

INTERNSHIPS

ML intern –Eddu-Mettle, Virtual The project begins with data exploration to understand feature distributions and relationships, followed by feature engineering steps such as handling missing values, encoding categorical variables, and normalizing data. Multiple classification models are then trained and compared to predict the pricing category, with evaluation based on accuracy, precision, recall, and F1-score using both validation and unseen data.	<i>October 2024 - December 2024</i>
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CERTIFICATIONS

<ul style="list-style-type: none">Technology Job Simulation , by Deloitte Australia— <i>July 2025</i>MERN Stack internship program ,Ethnus — <i>April 2025</i>AWS Architect-Associate internship ,Ethnus — <i>April 2025</i>
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ACHIEVEMENTS

Content co-lead: Owasp Club, VIT Bhopal
Volunteer: CYBER Scavenger Hunt (February 2024)
SIH participant : TEAM- VyomGyan (October 2024)