

NAYAN BEBALE

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EDUCATION

Sage University Indore

BTech Information Technology

CGPA: 8.36

Indore, Madhya Pradesh, India

February 2021 - June 2025

TECHNICAL SKILLS

Programming Languages: Python, SQL

Libraries and Tools: PyCharm, Sklearn, Tensorflow, Pandas, Numpy, OpenCV, Matplotlib, Seaborn

Web Technologies: Django, Flask, Rest API's, HTML, CSS, JavaScript, Bootstrap

Database: MySQL, SQLite, DjangoORM

Courses: OpenCv Bootcamp, 100 Days of Code: Python Pro Bootcamp, Databases with Python.

WORK EXPERIENCE

Machine Learning Intern

IIT Indore, Indore, India

Sep 2023 - Feb 2024

- Developed and optimized **object detection models** (YOLO, Faster R-CNN, SSD and more) focusing on improving **accuracy, latency, energy efficiency, and response time**.
- Integrated **gRPC for microservices**, enabling scalable and efficient **real-time communication** between **object detection services**.
- Deployed and evaluated multiple models, calculating **CPU usage**, optimizing **memory consumption**, and improving overall **system performance**.
- Tuned model parameters to achieve optimal **detection performance** across various hardware environments, balancing **energy consumption** and **speed**.

Machine Learning Intern

Sage University Indore, Indore, India

June 2023 - Oct 2023

- Project: "Realization of Image in 3D using Holoportation for Human Brain System into 3D Anatomy."**
- Algorithm Research & Development:** Conducted **extensive research** on various **algorithms** for **point cloud processing**, contributing to the **development of a 3D brain model with a 72% accuracy rate**.
- Volume Rendering:** Implemented **volume rendering techniques** to convert **2D MRI datasets into 3D Model**, enabling **better visualization of the human brain system in 3D**.

PROJECTS

- Udyog Sarthi - AI-powered Web Platform for Disability Inclusion Sep 2023 - Dec 2023
 - Developed a **platform** to connect **disabled individuals** with **education and job opportunities**.
 - Boosted user engagement by 40%. Reduced data breaches by 15%.** Provided personalized **course recommendations, job suggestions, and content delivery**. [Github](#)
- SmartSaver - Best Mutual Funds for You Feb 2024 - March 2024
 - Developed a **platform** for **middle-class families** to identify **top-performing mutual funds with 92% accuracy**.
 - Integrated **financial tools** like the **50-30-20 income split calculator** and **SIP calculators for age-based investment planning**. [LINK](#) [Github](#)
- CineMatch - Personalized Movie Recommendation App May 2024 - June 2024
 - Created a **web application** offering **personalized movie recommendations** using **real-time data** from the **TMDb API**.
 - Integrated **secure user authentication** and managed a **comprehensive movie database**, including **titles, ratings, and reviews**. [LINK](#) [Github](#)

ACHIEVEMENTS

- Finalist in SIH 2023 and Hack'dore**, with participation in **4 competitive hackathons**.
- Holds a **patent** for "**System and Method for Automatically Generating an Application Platform Based on User's Requirements Using IoT**" (Issued: **12 May 2023**).
- Organized and coordinated** college events, served as **Placement Coordinator**, and received a **silver medal** in the Best Poster Competition.