Dileep Kumar Sasanapuri

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Summary

Computer Science undergraduate with a strong foundation in full-stack web development and AI/ML, backed by hands-on project experience in brain tumor detection, face recognition, and learning management systems.

Education

VIT-AP University *(CGPA : 9.45)* **2022 – 2026**
Bachelor of Technology in Computer Science and Engineering *Amaravati, Andhra Pradesh*

Narayana Junior College (*CGPA : 9.53*) **2020 – 2022**
Mathematics , Physics and Chemistry *Visakhapatnam, Andhra Pradesh*

Relevant Coursework

- Data Structures and Algorithms
- Machine Learning
- Operating System
- MERN Stack Development
- Database Management System
- OOP Concepts
- Computer Networks
- Deep Learning

Experiences

CodSoft Virtual Internship **Jan 2024 – Feb 2024**
Web Development Intern *Andhra Pradesh*

- Developed a responsive *landing page*, a *functional calculator* application with a user-friendly interface and *a personal portfolio* showcasing projects and skills with HTML, CSS, and JavaScript.
- Enhanced knowledge of fundamental web technologies while gaining hands-on expertise in front-end development.

Projects

Brain Tumor Classification & Detection | *VGG16, Yolov8 , Python* **Feb 2025**

- Developed a Brain Tumor Detection System using a pre-trained *VGG16* model for high-accuracy classification and YOLOv8 for region detection along with classification
- Achieved **86.42**% classification accuracy using a fine-tuned VGG16 model on labeled MRI brain scans .
- Trained *YOLOv8 detection* model achieving **95.9**% mAp@0.5 and **77.1%** mAP@0.5:0.95 on validation set.
- Integrated *image upload functionality* for both detecting tumor regions and classifying tumors into Glioma, Meningioma, Pituitary, and No Tumor categories.
- GitHub Repository : BrainTumor_Classification_Detection_VGG16_Yolo - Deployed : Yolo_model

Face Detection Using ML | *Python* **Oct 2024**

- Developed a real-time face recognition system using OpenCV and the face_recognition library, enabling accurate identification and labeling of individuals via webcam with automatic logging of recognized faces and timestamps..
- Implemented a Flask-based web interface for live video streaming, face addition, and photo uploads, with encoded facial data stored and matched against a dynamic known-faces directory.
- GitHub Repository : facedetection

Learning Management System | *MongoDB , Express.js , React.js , Node.js* **June 2024**

- Enforced secure user authentication with OTP generation and email verification for account sign-ups using `jsonwebtoken` for secure token generation and `bcryptjs` for password hashing.
- Designed and implemented features allowing users to browse, enroll, and manage their courses seamlessly, The backend was handled using Node.js and Express.js for efficient API routing, with MongoDB for data storage.
- GitHub Repository: eduvibe_frontend GitHub Repository: eduvibe_server

Technical Skills

Languages: Python, Java, HTML/CSS, JavaScript, SQL, React.js
Developer Tools: VS Code, Eclipse, Jupyter Notebook, PyCharm, IntelliJ
Technologies/Frameworks: GitHub, Spring Boot (Basic)

Extracurricular

Photography Club **2024 – Present**
Team Member *VIT-AP University*

- Shared and gained knowledge on photography techniques and editing software.