Sagar B Sajjan

Bengaluru, Karnataka

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PROFILE

Computer Science graduate skilled in **Data Analytics**, **AI/ML** and **Computer Networking**. Proficient in building scalable and efficient applications with hands-on experience in containerization **(Docker)** and cloud deployments **(AWS EC2)**. Possess a strong foundation in **DSA** and **DBMS** by proven contributions in hackathons and team-based projects.

EDUCATION

Dayanand Sagar College of Engineering   **2023 - 2026**
*BE CSE - **CGPA - 8.83***   *Bengaluru, India*

S Basaveshwar Resi PU Col   **2021**
*PUC - **Percentage - 94.5%***   *Kalaburagi-Karnataka, India*

Sharanabasaveswar Res.High School   **2019**
*SSLC - **Percentage - 92.16%***   *Kalaburagi-Karnataka, India*

COURSEWORK

- Computer Networks
- Data Analytics
- OOPS Concept
- Machine Learning Model Development
- Cloud Computing
- Data Structures & Algorithms
- Web Frontend
- Database Management System (DBMS)

TECHNICAL SKILLS

Languages: C, C++, Java
Technologies/Frameworks: MongoDB, MySQL, Docker, AWS EC2, GitHub, TensorFlow

PROJECTS

DeepDetect ↗ | DL + MERN + FastAPI + TensorFlow

- AI-powered deepfake image detection platform with **React frontend, Node.js/Express backend**. and **FastAPI** model server hosted on EC2.
- Designed a **CNN** based deep learning model with 7 layers (Conv, Dense, Dropout) for deepfake image detection using **OpenForensics** Dataset.
- Containerized the **FastAPI** model service using **Docker**, deployed it on **AWS EC2**, and integrated with the **Node.js** backend for scalable inference in production.
- Deployed frontend/backend on **Render** with separate hosting of the model service to ensure high performance and modular scaling.
- **Links:** Live Demo — GitHub Repo

Zoo Management System ↗ | MERN Stack

- Developed a comprehensive Zoo Management System **(ZMS)** using the **MERN** stack **(MongoDB, Express.js, React.js, Node.js)**.
- Enabled users to register, log in, view detailed animal profiles, and book tickets seamlessly through an interactive **UI**.
- Designed a secure admin dashboard allowing zoo staff to add/remove animal entries, manage ticket bookings, and access system reports.

CERTIFICATIONS

- **NPTEL – Advanced Computer Networks (Silver Medal)**: Covered routing and transport protocols; recognized by India's premier online learning platform.