Shubham Bhagat

+91 9359662685 · portfolio.com · shubhambhagat16032005@gmail.com
Nagpur , Maharastra

INTRODUCTION

AI and Machine Learning practitioner with hands-on experience in machine learning, computer vision, and ML-driven application development. Skilled in building end-to-end ML solutions, from data preprocessing and model training to deployment and real-time inference. Proficient in Python and deep learning frameworks, with experience integrating ML models into scalable, production-ready applications.

SKILLS

- Java and Python
- React framework
- SQL and database management
- Web Development (HTML,CSS,JavaScript)
- Machine Learning and Deep Learning
- Computer Vision

INTERNSHIPS

AIML VIRTUAL INTERNSHIP **APRIL 2024 - JUNE 2024**
AICTE

- Developed end-to-end machine learning pipelines including data preprocessing, EDA, feature engineering, model training, and evaluation.
- Built, optimized, and deployed ML models using Python, scikit-learn, and Flask/Streamlit, following ML best practices.

EDUCATION

Shri Ramdeobaba College of Engineering and Management

B.Tech CSE (AIML)

2023 - 2027
GPA - 9.13

CERTIFICATIONS

GenAI Study Jams **Google**
Generative AI, prompt engineering, LLM fundamentals.

Deloitte Data Analytics Job Simulation **Deloitte**
Data analysis and business problem-solving.

Introduction to Generative AI **Google Cloud**
Generative models and real-world applications.

PROJECTS

Cattle Breed Prediction **Pashu-Vision**

- Designed and developed a two-stage cattle breed classification system using I-JEPA, separating self-supervised pre-training from supervised fine-tuning.
- Implemented GANs and Stable Diffusion for synthetic data generation and background diversification, improving dataset robustness and model generalization.
- Applied Grad-CAM to interpret model predictions by visualizing key cattle body regions, enabling explainable AI and better insight into model behavior.
- Achieved 95% classification accuracy on a dataset comprising 8 cattle breeds.
- Deployed the trained model on Hugging Face Spaces for real-time, live breed prediction.

Educational Learning Platform **Ongoing**

- Collaborating with faculty mentor to design and develop a scalable digital learning platform for structured academic content delivery.
- Working on course management, video-based learning modules, assessments, and student progress tracking.
- Integrating backend APIs and database management to support user authentication, content access, and performance analytics.
- Focusing on clean UI/UX, modular architecture, and scalability for future expansion.