Ojas Ramkrishna Bhat

ojasbhat225@gmail.com | 8767373902 | | Linkedin | Github

PROFESSIONAL SUMMARY

Aspiring AI/ML Engineer with strong foundations in Python, deep learning,nlp, computer vision, and IoT-based solutions. Experienced in building real-world projects like object detection with voice assistance and automated retail systems. Passionate about solving real-world problems using machine learning, backend development, and scalable software solutions.

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY - AP Amaravati, Andhra Pradesh
Bachelor of Technology in Computer Science and Engineering (CORE) SEP 2022 - present
GPA: 8.47
Relevant Coursework: Data Structures, Machine Learning, Deep Learning Database Management, Operating Systems, Nlp

MOUNT LITERA SCHOOL Vasco, Goa
Class 12th :73 % 2021-2022

VIVEKANANDA VIDYALAYA Borim, Goa
class 10th :83 % 2019-2020

Work Experience

Vocational Trainee – MECON Limited (Government Enterprise) DEC 24-JAN 25
Assisted IT team in managing enterprise networks, database systems, and SAP ERP platforms.
Explored how ERP systems streamline business processes and improve data flow across departments.
Gained hands-on experience in large-scale IT infrastructure and data management practices.
Certificate

Projects

VisionVoice
Technologies: Python| TensorFlow| OpenCV| YOLO| pyttsx3
Developed a deep learning-based object detection and voice feedback system for visually impaired users.
Integrated YOLOv5 trained on the COCO dataset to detect 80+ object classes in real-time.
Implemented preprocessing and feature extraction optimizations, improving detection accuracy from 72 to 87 percentage
Added text-to-speech support to convert detected labels into audio descriptions.
Code Repository

Automatic Billing Smart Cart
Technologies: C++| Django| Arduino| HTML| IoT
Built an IoT-enabled auto-billing cart that scans product barcodes and generates a real-time bill.
Designed a Django backend and mobile interface allowing customers to view items and complete UPI payments instantly.
Reduced manual checkout time by 50% during prototype testing.
Ensured real-time communication between hardware and server using lightweight IoT protocols.
with the help of IOT concept.

NIDM Knowledge Retrieval System(Ongoing)
Technologies: Python| FastAPI| FAISS| Uvicorn| MongoDB
Developing a FastAPI backend to process and index disaster management research papers.
Implemented FAISS vector search for semantic information retrieval, enabling users to query documents with natural language.
Built RESTful APIs for PDF upload, indexing, and retrieval, improving research accessibility by streamlining knowledge discovery.

Certifications

Professional Certificate : Google Data Analytics
Certificate

IBM AI Engineering Professional Certificate
Certificate

Professional Certificate : BlackBucks Gen AI and ChatGPT
Certificate

Skills

Programming Languages: Python, Java, C++, R, SQL

Machine Learning AI: TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV

Data Science Tools: MySQL, Pandas, NumPy, Matplotlib, Power BI,NLTK,SpaCy

Languages Spoken: English, Hindi, Marathi, Konkani, Malayalam