Vysakh M

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OBJECTIVE

A detail-oriented BCA graduate currently gaining hands-on experience as an **AI & ML Intern at Linnk Academy**.
Strong foundation in programming, software development, and data-driven problem solving.
Eager to apply AI and ML skills to real-world projects and grow in a technology-driven organization.

EDUCATION

Bachelor of Computer Application   2022-2025

Manglore University

INTERNSHIPS

Linnk Academy India   2025– Present

- Gaining hands-on experience in Artificial Intelligence and **Machine Learning** using **Python, TensorFlow, Keras,** and **PyTorch**.
- Working on data preprocessing, model training, and NLP tasks while developing and evaluating deep learning models for real-world applications

PROJECTS

AI-Driven Learning Management System | MERN Stack

- Developed a **full-stack AI-powered Learning Management System** with secure authentication and role-based dashboards for students, instructors, and admins.
- Implemented **AI-driven analytics** to track learner engagement, identify at-risk students, and analyze learning patterns with real-time progress monitoring.
- Designed **scalable, interactive dashboards** with data visualizations to support data-driven decisions
- **Tech Stack:** React.js, Node.js, Express.js, MongoDB, JWT, bcrypt, Recharts, AI Analytics, REST APIs, MERN Stack

Skin Disease Classification using CNN

- Developed an end-to-end skin disease classification system using **CNN** with **MobileNetV2** transfer learning trained on the **HAM10000 dermoscopic image dataset.**
- Implemented explainable AI using **Grad-CAM** to visualize model decision regions and added confidence-based medical warnings.
- Built and deployed an interactive **Streamlit web application** with image upload, prediction confidence, Grad-CAM download, and history tracking.
- **Tech Stack:** Python, TensorFlow, CNN, MobileNetV2, Streamlit, OpenCV, NumPy, Grad-CAM, Google Colab.

AI-Powered Waste Classification System with Real-Time Detection.

- Built a **full-stack intelligent waste sorting system** using **React.js and FastAPI**, integrating a custom-trained **YOLOv8 deep learning model** for multi-object waste detection.
- Trained and deployed a **YOLOv8 model with 12 waste classes** (plastic, metal, paper, glass, organic, etc.), achieving high-accuracy real-time object detection.
- Implemented real-time object detection with bounding boxes, confidence scores, and automated recycling bin recommendations, ready for mobile deployment.
- **Tech Stack:** React.js, FastAPI, OpenCV, Ultralytics YOLOv8, SQLite, Lucide icons, Tailwind/CSS, Canvas API, Capacitor-ready for mobile deployment.

TECHNICAL SKILLS

- Proficient in Python programming for AI and ML applications
- Skilled in using TensorFlow, Keras, and PyTorch for deep learning model development
- Knowledge of Neural Networks, CNNs, and RNNs for image and sequence analysis
- Familiar with Natural Language Processing (NLP) and text analytics techniques
- Experience in data preprocessing, feature extraction, and model evaluation

SOFT SKILLS

- Strong analytical and problem-solving abilities
- Attention to detail and accuracy in data handling
- Effective communication and presentation skills
- Good team collaboration and adaptability
- Time management and ability to meet project deadlines
- Continuous learning mindset with curiosity for emerging technologies

CERTIFICATIONS

- IBM Machine Learning With Python   Nov 2025

  https://www.coursera.org/account/accomplishments/records/1RUGYDNSCO3Y

- BCG GenAl Job Simulation on Forage   Jul 2025

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