Ashrita Vinod

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EDUCATION

- **VIT Bhopal University, Madhya Pradesh**
  B.Tech CSE-AI & ML- CGPA: 9.00   Expected Graduation: 2026
- **Amrita Vidyalayam , Kochi**
  Higher Secondary(CBSE) -Percentage 94.6%   May 2022
  Secondary(CBSE)-Percentage 96.4%   June 2020

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL, NoSQL.
- **Libraries & Frameworks:** Pandas, NumPy, Scikit-learn, Hugging Face Transformers, NLTK, TensorFlow, FastAPI, React, CSS.
- **Tools & Platforms:** LangChain, Dialog Flow, LLaMA, Streamlit, OpenCV, MySQL, Git, MongoDB.
- **Areas of Expertise:** Data Structures and Algorithms,Machine Learning, Deep Learning, Computer Vision, Natural Language Processing(NLP), Retrieval-Augmented Generation (RAG) ,Data Analysis

PROJECTS

AI-Powered Disease Prediction & Doctor Recommendation System :

- **Developed a full-stack AI-powered healthcare assistant** that predicts diseases from user symptoms, explains medical conditions, recommends medications, and suggests relevant specialists.
- **Implemented BERT-based NLP models** for clinical note understanding and disease classification using a Kaggle medical dataset; achieved accurate symptom-to-diagnosis mapping.
- **Deployed backend using FastAPI** and built an interactive frontend interface for real-time user interaction; leveraged Python, Pandas, and NumPy for data processing and model integration
- **Technologies:** Python, NLP, BERT, FastAPI, Pandas, NumPy

SkillCraft – AI-Powered Career Roadmap Generator :

- **Built a full-stack AI platform** that generates personalized career roadmaps by analyzing user-defined roles and current skills, sequencing relevant skills, courses, and projects.
- **Engineered a custom AI agent using LLaMA 3** for structured reasoning—decomposing roles into skill clusters and inferring logical learning dependencies.
- **Developed a modular React frontend with Pure CSS** and deployed a FastAPI backend to dynamically serve role-specific learning paths in real time.
- **Technologies**: LLaMA 3, React AI Agents, FastAPI, React, CSS, Python

AI-Powered Crop Disease Detection:

- Developed a real-time plant disease detection system using DenseNet121, achieving 95% accuracy on 10,000+ paddy leaf images and outperforming ResNet50 and Xception models.
- Implemented classification pipeline with TensorFlow, Keras, and OpenCV, enabling efficient image preprocessing, model inference, and live detection.
- **Technologies**: Python, TensorFlow, Keras, OpenCV, DenseNet121, ResNet50, Xception

EXTRACURRICULARS:

- **Freelancing Club: Social Media & Marketing Lead –** Organized 2 club events (150+ and 70+ attendees) covering freelancing fundamentals and profile-building competitions.
- **Freelance Digital Marketer**: Generated revenue through successful Pinterest ad campaigns for fitness products, leveraging targeted visual strategies to drive conversions.
- **Certifications:**IBM GenAI Using IBM Watson | Coursera: Applied Machine Learning in Python | Kaggle: Intro to ML, Python | MATLAB: Machine Learning, Simulink | Cisco: Data Analytics Essentials | IBM Cyber Security: Using IBM Watson.

LANGUAGES:

English (fluent) ,Malayalam (fluent) ,Tamil (conversational) ,Hindi (conversational)