

VARSHINI H A

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PROFESSIONAL SUMMARY

Recent AI&DS graduate with a passion for building agentic, automation-powered tools at the intersection of marketing, growth, and technology. Experienced in developing AI-powered platforms, chatbots, and dashboards using Python, Flask, TensorFlow, and LLM integrations. Comfortable working with GenAI tools, web technologies, and storytelling with a drive to turn experimental ideas into high-impact projects.

SKILLS

- **Programming & Web:** Python, C, JavaScript, HTML, CSS
- **Libraries:** TensorFlow, Scikit-learn, Pandas, NumPy, Dlib, OpenCV
- **Tools:** Power BI, Jupyter, Git, VS Code, Streamlit
- **Database:** SQL, MySQL, Excel
- **Soft Skills:** Analytical thinking, Problem solving, Creative and innovative, Self-motivated
- **Languages Known:** Kannada, Hindi, English

EDUCATION

- **B.E. in Artificial Intelligence and Data Science** - Mysore University School of Engineering
CGPA: 8.42 (2025)
- **Class XII** - MMK & SDM Girls PU College, Mysuru (PCMB) - 70% (2021)
- **Class X** - St Mary's Girls High School -78.12% (2019)

ACADEMIC PROJECTS

1. AI-Powered Farming Assistant

- **Tools Used:** Flask, TensorFlow, Scikit-learn, LlamaIndex, HTML, CSS, JavaScript
- **Key Outcome:** Built a multi-functional web platform offering crop and fertilizer recommendations and plant disease detection via image uploads with 92% classification accuracy. Integrated a GenAI chatbot using LlamaIndex to deliver personalized guidance for farmers.

2. Driver Drowsiness Detection System

- **Tools Used:** Python, OpenCV, Dlib, CNN
- **Key Outcome:** Developed a real-time facial analysis system to detect eye closure and head tilt with 90% accuracy. Triggered safety alerts, demonstrating the potential to reduce fatigue-related driving accidents.

3. Customer Segmentation & Insights Dashboard

- **Tools Used:** Python, Pandas, KMeans Clustering, RFM Analysis, Streamlit
- **Key Outcome:** Implemented an RFM-based segmentation pipeline that categorized customers into 4 actionable segments. Built an interactive Streamlit dashboard for business teams to analyze customer behavior and improve targeting strategies.

4. Company Website – Hexmoto Controls

- **Tools Used:** HTML, CSS, JavaScript
- **Key Outcome:** Created a responsive company website with an optimized layout, improving load speed by 35% and enhancing user engagement. Contributed to professional branding and client communication.

EXPERIENCE

1. Web Developer Intern - Hexmoto Controls, Mysuru (October 2023)
 - Built and optimized the company's website frontend.
 - Collaborated with the backend team and followed Agile practices.
2. Machine Learning Intern - Unified Mentors Pvt Ltd. (May - June 2025)
 - Built an image classification model for multi-class animal recognition using CNN architecture.
 - Developed a mobile price prediction model using supervised learning techniques and feature engineering.
 - Gained experience in model evaluation, dataset preprocessing, and performance tuning.

EXTRACURRICULAR ACTIVITIES

- Innovation and Design Thinking (IDT) case study and presentation on Barcode Tracking System.
- Developed a cutting-edge web application on fostering seamless connection between local business and customers at Infothon, a National-level Hackathon at VVCE.
- AICTE activities on Women's Health and Hygiene, Basic Education Awareness Programme, Promoting Local Tourism, Disease Awareness Programme.
- Introduction to Data Analysis using Excel course from upGrad.

CERTIFICATIONS

- Advanced Diploma in Information Technology (ADIT) course from Edukare ITES, Mysuru.
- Build Your Own Generative AI workshop from NXT WAVE.
- Virtual internship on Data Science + AIML, YBI Foundation.
- Create Generative AI Apps on Google Cloud.