### **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.

1. **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.

1. **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.

1. **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.

1. 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.