

# DHANYASHREE M V

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<https://github.com/DHANYASHREE-MV>

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## PROFESSIONAL SUMMARY

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Aspiring AI/ML engineer with experience in developing ML models, deploying applications, and solving real-world problems using software and data-driven approaches. Focused on delivering impactful and accessible technology solutions.

## PROFESSIONAL EXPERIENCE

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### Research & ML Intern — CSIR - National Aerospace Laboratories (NAL)

Project pdf: [https://drive.google.com/file/d/14Gs3qjEA0Wx97HxThu3N1tyLFCR5p6\\_I/view?usp=sharing](https://drive.google.com/file/d/14Gs3qjEA0Wx97HxThu3N1tyLFCR5p6_I/view?usp=sharing)

- Developed a data-processing workflow for aircraft structural health monitoring using strain signals.
- Implemented ASTM E1049-85 Rainflow counting with exponential smoothing to improve fatigue cycle accuracy.
- Generated fatigue spectra enabling reliable RUL estimation and predictive maintenance insights.

### Data Science Intern — The Developers Arena (Remote)

- Built an interactive **Airbnb Market Explorer Dashboard** with Streamlit and Plotly featuring filters, KPIs, and geospatial price maps.
- Performed full **data cleaning and EDA** to uncover pricing, neighbourhood, and room-type trends.
- Worked on end-to-end data science workflows, including feature engineering and model development using Python.

### Co-Lead | Content Team — The Central Committee DSCE

- Served as content co-lead for **Aventus Hackathon 3.0**, creating promotional and event communications to enhance engagement.
- Led content strategy and editorial direction for DSCE's Central Committee, delivering clear and consistent communication.
- Co-led the content team, coordinating efforts to produce high-quality, goal-aligned materials.

## EDUCATION

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### Dayananda Sagar College Of Engineering

Bengaluru  
Cgpa - 8.8

Bachelor of Engineering in Artificial Intelligence and Machine Learning.

2022 – 2026

## TECHNICAL SKILLS

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**Programming:** Python, C, SQL, JavaScript, R, HTML, CSS, Sql-lite

**AI/ML Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras, LangChain, Hugging Face, LLM's

**Data & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Tableau, PowerBI

**Web & Deployment:** Streamlit, Flask, FastAPI, React.js, Docker, MLflow, Kubernetes

**Databases:** MongoDB, PostgreSQL, FAISS, Chroma, SMTP

**Version Control & Tools:** Git, GitHub, VS Code, PyCharm, Spyder, Colab

## PROJECTS

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### **AIML Department Digital Assistant — Multi-Agent RAG System:**

- Developed a Multi-Agent RAG-based digital assistant integrating LLMs with structured and vector databases to automate academic queries and report generation.
- Built using LangChain, FastAPI, PostgreSQL, FAISS, and Streamlit, delivering accurate, explainable, and real-time responses for students and faculty.
- Automated NAAC/NBA accreditation data retrieval and student-faculty analytics, reducing manual workload and improving departmental efficiency.

### **WILD GUARD AI - Deep learning + Computer Vision:**

- Built a YOLOv11-based system to detect poachers, rangers, and tourists from camera images with Streamlit UI for multi-image uploads.
- Enabled instant SMS alerts via Twilio API and trained a custom model for accurate detection in forest environments.

### **AIRBNB Smart Pricing- Insights Hub - Data Science–Driven Predictive Analytics System:**

- Built a full-stack Airbnb analytics platform with EDA, interactive dashboards, and ML-based price prediction.
- Designed a production ML pipeline (Random Forest + preprocessing) for accurate pricing insights.
- Developed a sleek Streamlit dashboard with KPI cards, filters, and geospatial visualizations.
- Served real-time predictions via a FastAPI microservice consumed securely through REST APIs.

## CERTIFICATIONS

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- Advanced: Generative AI for Developers Learning Path & Machine Learning
- Google Cloud Engineering Certificate
- NPTEL-Human Computer Interaction - IIT Madras
- Data Science & Analytics HP LIFE
- Data Visualization TATA