

# Sarang More

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AI/ML engineer with expertise in deep learning, machine learning, and data analytics. Specializing in creating advanced AI models to address complex challenges and deliver impactful, real-world solutions.

## Technical Skills & Expertise

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- **Machine Learning & AI:** Scikit-Learn, Keras, TensorFlow, Pandas, NumPy, Matplotlib, PyTorch.
- **Cloud & MLOps:** AWS (SageMaker, S3), Docker, Git
- **Business Analytics & Tools:** Excel, PowerPoint, Tableau.
- **Web Development:** HTML, CSS, JavaScript.
- **Database:** SQL, MongoDB.
- **Platforms & Tools:** Windows, Linux, MySQL, VS Code, Git.
- **Programming Languages:** Python, C++.

## Projects & publications

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- **Multimodal Image & Video Generation System (FLUX + SVD):** Built a comprehensive multimodal generation pipeline capable of producing high-quality images and realistic object-level video motion from natural language prompts using FLUX.1-dev (12B) and an enhanced multi-keyframe SVD architecture. Achieved strong semantic accuracy (CLIP similarity 0.3356) and optimized the full pipeline to run under 5 minutes with a user-friendly Gradio interface.
- **Post-Gen Filtering Agent – LLM Jailbreak Prevention Architecture:** Designed a post-generation filtering agent to safeguard LLM outputs by detecting jailbreaks using prompt-response correlation and intent validation. Built a knowledge graph from 1,400+ real-world jailbreaks to visualize attack patterns and improve decision logic. Applied causal AI to uncover root causes of misalignment, enabling strategic improvements in response safety, especially for lightweight, production-ready models.
- **Spotify Popularity and Trend Analysis:** Built a time series forecasting tool using Python and SARIMAX to predict streaming trends across 1,000+ tracks. Leveraged social media and usage data to uncover patterns in music engagement, enabling actionable insights for content strategists and marketing decisions.
- **Formula 1 Racing Visualization Dashboard:** Developed an interactive F1 data visualization dashboard using vanilla JavaScript and D3.js, enabling exploration of 70+ years of racing history across drivers, constructors, circuits, and race results. Designed advanced visualizations including line charts, heatmaps, scatter plots, bar charts, and a global circuit map, with real-time search, filtering, and responsive UI optimization.
- **Medical Herbs Identification:** Built CNN-based classifier using Inception V3 transfer learning for medicinal herb identification. Implemented data augmentation and feature extraction techniques to improve robustness across varied image conditions.
- **IRJET Publication:** Published a detailed research paper covering the technical design, model training, and application impact of the herb classification project, contributing to the growing domain of AI in healthcare.

## Education

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- **Indiana University Indianapolis, IN, United States:** Master of Science, Computer Science | 2024-2026
- **Savitribai Phule Pune University, Pune, India:** Bachelor of Engineering, Computer | 2020-2024

## Professional Experience

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1. **Data Analytics Intern: YBI Foundation | 3 months | 2024**
  - Developed classification and regression models using Scikit-Learn and Keras for predictive analytics
  - Performed exploratory data analysis and statistical modelling to identify patterns in business data
  - Collaborated with cross-functional teams to translate analytical findings into actionable recommendations
  - Delivered actionable insights through statistical analysis and machine learning techniques
2. **Web Development Intern: InternPe | 3 months | 2023**
  - Built RESTful APIs using Node.js and Express for scalable web applications
  - Integrated database systems and optimized query performance for improved data retrieval