HRUSHIKA SUDHAKAR REDDY

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EDUCATION

Master's in Computer Science, University of Dayton (Dec 2025)

  Coursework: Advanced Programming and Data Structures, Database Management Systems, Artificial Intelligence, Advanced Intelligent Systems and Deep Learning, Operating Systems

Bachelor's in Computer Engineering, Nitte Meenakshi Institute of Technology (Aug 2023)

PROFESSIONAL EXPERIENCE

Data Analytics Intern, Exposys Data Labs, Sept 2022 – Nov 2022

- Analyzed large datasets using **Python (pandas)** and **R** to identify trends, streamline workflows, and support data-driven business decisions.
- Developed interactive dashboards and visualizations with **Tableau** and **Power BI**, effectively communicating insights to both technical and non-technical stakeholders.
- Applied statistical techniques and collaborated with cross-functional teams to enhance data accuracy, solve complex challenges, and drive innovative solutions.

AI & Computer Vision Intern, IETE, Oct 2021 – Dec 2021

- Applied AI-driven image transformation and preprocessing techniques to enhance visual data for analysis.
- Implemented HSV color space–based object detection and face detection algorithms using **OpenCV** to improve accuracy and tracking.
- Utilized core computer vision principles like **feature extraction** and **pattern recognition** to solve practical image analysis problems.

TECHNICAL SKILLS

- **Programming Languages**: C, C++, Python, R, HTML, Javascript
- **Tools:** Tableau, Power BI, Django, MySQL, MongoDB
- **Others:** Numpy, Pandas, PyTorch, Tensorflow, Pandas, OpenCV, Matplotlib, Jupyter Notebook

TECHNICAL PROJECTS

Agriculture Workforce Management System

- Developed a full-stack web platform using **Python (Django)** to streamline worker-client matching, service scheduling, and payment processing in the agricultural sector.
- Designed responsive **HTML/CSS/JavaScript** interfaces and implemented automated assignment logic with **Django ORM**, integrating **MySQL** and **Django REST Framework** for secure, real-time operations.

Generative AI – Painting Inpainting with Stable Diffusion

- Fine-tuned **Stable Diffusion 2.0 Inpainting model** on a custom painting dataset using **Hugging Face diffusers**, applying circular masking and prompt-based conditioning to guide center-region generation.
- Built a complete pipeline with **AdamW optimizer**, **MSE loss**, and visualized outcomes via **matplotlib**, achieving stylistically consistent and high-quality inpainting results.

ADDITIONAL EXPERIENCE

Founder, Kefi

- **Launched and scaled** *Kefi*, a sustainable and inclusive brand, overseeing branding, user research, and product development from concept to execution.
- Built a full-stack **e-commerce website** using **HTML**, **JavaScript**, and **Python**, and implemented **machine learning models** (Regression, Neural Networks) to predict sales, revenue, market risks, and customer behavior.
- Promoted the brand through strategic **influencer collaborations** and **Instagram Ads**; featured in *The Indian Express* as a recognized student entrepreneur making an impact in the fashion industry.