



Hrithik S

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EDUCATION

SRM Institute of Science and Technology, Ramapuram

B. Tech in Computer Science specialization in Artificial Intelligence and Machine Learning

2022 - 2026

CGPA: 8.77

Shraddha Childrens Academy, Kottivakam

Class 12 (CBSE)

2021 - 2022

Score: 80.6%

EXPERIENCE

Jay Robotics (Robotics and automation focused sector)

Website and mobile UI development Intern

Banjara Hills, Hyderabad

June 2024 - July 2024

- Designed logos and UI for a career development app, improving user engagement by 30% through intuitive user flows and interactive prototypes using Figma.
- Created a fully responsive website for Alpha Alliance, optimizing layouts for mobile and desktop with Webflow, reducing page load time by 20%.
- Made 3D UI components and animations with Figma, Webflow, and Blender, enhancing user experience and branding.

Prolifics.inc (IT solutions provider)

Machine Learning Engineer intern

Madhapur, Hyderabad

June 2023 - July 2023

- Optimized multiple machine learning models using CSV datasets (50,000+ records), improving accuracy by 15% through data preprocessing, feature selection and efficient model selection and training
- Conducted a comparative analysis of ML models, increasing accuracy from 78% to 92% by fine-tuning algorithms and preprocessing data using Logistic Regression, Random Forest, XGBoost, and CatBoost with GridSearchCV and RandomizedSearchCV.
- Learned about Henry Schein OMS System, analyzing its data processing framework and assessing integration feasibility for ML-driven automation.

TECHNICAL SKILLS

Languages: Python, C++, HTML, SQL

Core Libraries & Frameworks: Pandas, NumPy, Scikit-Learn, TensorFlow, YOLO, OpenCV, Docker, Pinecone, Matplotlib/Seaborn

Specializations: Data Science, Deep Learning, Machine Learning, Computer Vision, NLP, MLOps, Model Optimization, Prompt Engineering, RAG Pipelines

Databases: MySQL

Developer Tools: Git, Jupyter Notebook/VS Code, Cursor.ai, Figma, Webflow

Soft Skills: Decision-making, Project & Deadline Management, Quality assurance, Public Speaking & Presentation, Teamwork.

PROJECTS

Credit risk prediction using Machine Learning Models | [LINK](#)

- Experimented with multiple ML models for loan default risk assessment, leveraging Random Forest, XGBoost, and Logistic Regression, achieving an AUC-ROC score of 0.89.
- Applied feature engineering techniques (outlier detection, data normalization), improving model accuracy by 12%.

Retrieval-Augmented Generation (RAG) Pipeline | [LINK](#)

- Designed and deployed an end-to-end RAG system integrating LLMs with vector search for accurate contextual responses.
- Performed chunking, embeddings & semantic indexing using Pinecone, enhancing retrieval precision, and minimizing hallucination and created a FastAPI service enabling real-time query handling and scalable document ingestion workflows.

AI-Powered Wildfire Detection Using Hybrid Model (EfficientNet and YOLOv8) | [LINK](#)

- Built a real-time and static wildfire detection system using EfficientNet-B0 (95.4% Val, 94.4% test accuracy) for fire/smoke classification and YOLOv8 for bounding box localization.
- Achieved 85% mAP@0.5 with YOLOv8 and integrated a Flask-based alert system to trigger alarms across devices via LAN.

CERTIFICATIONS

- Machine Learning Specialization (3 Course Series) - DeepLearning.AI | [CERTIFICATE](#)
- Smart India Hackathon (SIH) 2023 - Advanced to Round 3 at SRM KTR | [CERTIFICATE](#)
- Advancement of AI Enabled Software Development from Benchtop to Commercial Product - SRM KTR | [CERTIFICATE](#)