

HRISHIT MADHAVI

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US Work Authorization, Green Card Holder

EDUCATION

MIT World Peace University CS Computer Science <i>Current GPA: 8.3</i>	Pune, IN Aug 2022 - Present
SNBP International School 12th CBSE Science <i>Percentage: 81.8</i>	Pune, IN June 2020 - July 2022
SNBP International School 10th CBSE <i>Percentage: 91.2</i>	Pune, IN June 2013 - April 2020

EXPERIENCE

IIMT University <i>Machine Learning Research Associate</i>	Remote Jan 2025 – Mar 2025
<ul style="list-style-type: none">Led an AI-driven machine learning research project on <i>Cardiovascular Disease Risk Prediction</i>, contributing to a PhD study in healthcare analytics.Developed a predictive pipeline utilizing ensemble ML models for multi-disease risk assessment.Built and deployed an interactive Streamlit-based web application featuring SHAP value visualizations and model performance comparisons.Implemented a multi-output Random Forest model to predict multiple disease types simultaneously.	
Infosys Springboard <i>ML Project Intern</i>	Remote Oct 2024 – Dec 2024
<ul style="list-style-type: none">Designed and implemented a handwritten digit recognition system using neural networks (MLP, CNN, LeNet-5) for MNIST dataset classification.Developed custom PyTorch models with dropout, activation functions, and convolutional layers for efficient feature extraction.Built an interactive Streamlit web application for digit prediction from uploaded images, achieving accuracies of 90.04%, 98.93%, and 98.95% respectively.Created a digit visualization tool to save and display MNIST images using Matplotlib.	

SKILLS

Programming Languages:	Java, Python, C/C++
Cloud Services:	Azure
Backend Development:	Spring Boot, ExpressJS,
Frontend Development:	React JS, Angular JS
Data Science & ML:	Statistics, Seaborn, Pandas, Numpy, Scikit-learn, OpenCV
Deep Learning:	TensorFlow, PyTorch, CNNs, RNNs, Transfer Learning, Fine-tuning Models
AI Tooling & Frameworks:	Langchain, Hugging Face Transformers, OpenAI APIs
Operating Systems:	Windows, Ubuntu
Business Tools:	Tableau, Power BI, MS Excel, PowerPoint

PROJECTS

1. Crisis Cradle

Machine Learning–Integrated AWS Web Platform for Real-Time Disaster Prediction (Capstone Project, 2025)
Developed a full-stack web platform leveraging AWS EC2, S3, and Lambda for real-time disaster forecasting using meteorological, seismic, and satellite data.

Integrated machine learning models for predictive analytics and automated Twilio API alerts via SMS/email for timely disaster notifications.

Implemented Razorpay full-stack integration for secure payment handling, enabling premium alert subscriptions and donation processing.

Focused on scalable architecture, automation, and public safety applications through cloud-based AI deployment.

2. Low-Level Language Model for Sentiment Analysis and Translation

Built a sentiment analysis tool for low-resource languages using classical ML models like SVM, Logistic Regression, and Random Forest. Achieved 91% accuracy. Integrated an external translation API to convert summarized text outputs into multiple Indian languages, improving accessibility and regional usability.

3. Chess Board with NLP Integration

Designed a voice/text-controlled chess game using natural language processing and Alpha-Beta Pruning for strategic move generation. Secured a position in the top 10 across the CSE department in the university mini project competition.

PUBLICATIONS

Low-Resource Language Processing: An OCR-Driven Summarization and Translation Pipeline.

Research project focused on multilingual NLP systems for low-resource Indian languages, 2025.

[View Paper](#)

CERTIFICATIONS

1. *Exploring Adversarial Machine Learning* – NVIDIA Deep Learning Institute

Completed in December 2024

2. *Beginner's Guide to Machine Learning* – Udemy

Completed in June 2024

3. *Microsoft Azure Machine Learning Fundamentals* -Microsoft

Completed in July 2025

4. *Generative AI: Introduction to Large Language Models* -LinkedIn

Completed in July 2025