

HRISHIT MADHAVI

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US Work Authorization, Green Card Holder

EDUCATION

MIT World Peace University
CS Computer Science *Current GPA: 8.3*
CGPA: 7.5

Pune, IN
Aug 2022 - Present

SNBP International School
12th CBSE Science *Percentage: 81.8*

Pune, IN
June 2020 - July 2022

SNBP International School
10th CBSE *Percentage: 91.2*

Pune, IN
June 2013 - April 2020

EXPERIENCE

IIMT University
Machine Learning Research Associate

Remote
Jan 2025 – Mar 2025

- Led an AI-driven machine learning research project on *Cardiovascular Disease Risk Prediction*, 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
ML Project Intern

Remote
Oct 2024 – Dec 2024

- 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