YADHISRESHT HARIKRISHNAN

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PROFESSIONAL SUMMARY

B.Tech Computer Science Engineering student with hands-on experience in AI/ML development, computer vision, and software engineering. Proficient in Python and Java, with a strong foundation in building scalable AI-driven systems, data pipelines, and production-ready solutions. Experienced in collaborative development environments and eager to apply machine learning, deep learning, and problem-solving skills to real-world applications in innovative teams.

EDUCATION

Bachelor of Technology (B.Tech) - Computer Science Engineering w/s Artificial Intelligence & Machine Learning (AI & ML), *SRM Institute of Science and Technology*
August 2024 - May 2028
Chennai

PROFESSIONAL EXPERIENCE

Computer Vision (AI) Intern, *infiniTraq*
Dec 2025 - Present
Chennai, Tamil Nadu

- Contributed to an AI-powered computer vision platform for real-time people tracking and activity analysis using CCTV video streams, scalable video intelligence and behavior analysis.

AI - ML Intern, *Tarento Technologies Private Limited*
Dec 2025 - Present
Bengaluru, Karnataka

- Developed a low-latency automotive voice assistant without LLMs using text embeddings, RAG principles, LangGraph-based conversational workflows and secure API integrations.

PROJECTS & RESEARCH

Research Paper: Advancing Earthquake Engineering: The Role of Machine Learning and Deep Learning in Mitigating Seismic Risks

- The paper is based on applying Machine Learning (ML) and Deep Learning (DL) techniques to earthquake engineering, emphasizing how computational models can analyze seismic data, predict hazards, and support efficient disaster risk reduction and structural safety planning. Presented the paper at IIT INDORE and selected for publishing in SPRINGER

Research Paper: Seismic Hazard Assessment in North-Eastern India using ANN & Geospatial Analysis (Ongoing)

- Focusing on integrating Artificial Neural Networks (ANN) with geospatial data to model seismic patterns, assess regional vulnerability, and enhance earthquake risk prediction accuracy.

Research Paper: Employing AI Driven Classification Techniques of Structural Supports Selection for Offshore Piping System (Ongoing)

- Aimed at developing AI-based predictive models to optimize support design, improve structural stability, and enhance safety in offshore engineering systems.

Research Paper: Deep Learning Approaches for Early Detection and Prognostic Prediction in Cervical Cancer Screening (Ongoing)

- Focusing on utilizing deep neural networks for automated diagnosis and risk prediction, enabling early intervention and improved clinical decision-making in healthcare.

Research Project: Artificial Intelligence based Spatial Information Systems in Support of Disaster Management (Ongoing) – CINTEL in collaboration with ARIES

- Artificial Intelligence based Spatial Information Systems in Support of Disaster Management

Reading Tool for People Suffering from ADHD, Dyslexia & Low Vision

- Developed a browser-based application designed to enhance reading accessibility through AI-driven text assistance, customizable visual settings, and focus-enhancing tools to support neurodiverse users.

MARINUS DATUM - Marine Biodiversity & Climate Analytics

- Built an AI-driven predictive system for marine and climate data analysis to forecast biodiversity changes, enabling conservation insights and ecosystem management.

AI CRICKET CHATBOT

- Designed an intelligent conversational chatbot leveraging NLP and machine learning to provide interactive cricket analytics, match insights and player performance predictions.

TERRAGUARD - AI-Powered Climate Guard System

- Developed an AI-based analytical and predictive platform for climate monitoring and risk assessment using environmental datasets to enhance decision-making in sustainability and disaster resilience.

SKILLS

Programming Languages: Python, Java, C++, C, SQL

Artificial Intelligence: TensorFlow, PyTorch, Scikit-Learn, Matplotlib, OpenCV, Pandas, Numpy, Vision, GIS, Neural Networks

Frontend and Design: HTML, CSS, Streamlit, Canva, JSON Handling

Backend and Databases: MySQL, API Integration, RAG, Text Embeddings, LangGraph, Semantic Search

CS Fundamentals: Data Structures, Algorithms, Computer Networks, Operating Systems, OOPs, Machine Learning

CERTIFICATIONS

Introduction to Operating Systems (NPTEL) • Fundamentals of Object-Oriented Programming (NPTEL) • Programming in Java (NPTEL)

EXTRACURRICULAR ACTIVITIES

Vice-Chairman in ISET SRM Chennai Student Chapter

- Responsible for leading strategic initiatives, mentoring members, and fostering innovation in earthquake engineering and geotechnical research.
- Collaborated with industry experts and faculty mentors to host technical sessions, workshops, and guest lectures promoting knowledge exchange and practical learning.

Co-Founder of FORESIGHT-X

- Leading an interdisciplinary research and innovation lab integrating AI/ML with earthquake engineering to develop data-driven, real-time systems for disaster prediction, response, and resilience.
- Driving research on ANN-based seismic modeling, digital twins, and geospatial intelligence, collaborating across AI, data science, and geophysics to enhance seismic forecasting and disaster management frameworks.

Master of Ceremonies, Directorate of Student Affairs – SRM

- Served as the host for major institutional and cultural events, emceeing in five languages (English, Hindi, Tamil, Kannada, Telugu).
- Collaborated with 30+ domain and club convenors to execute large-scale events, including hosting in front of 10,000+ attendees at MILAN, one of India's largest college cultural festivals.

R&D Member in CINTEL Student Association

- Actively involved in exploring research opportunities and innovation-driven projects within the department.
- Collaborating with peers and faculty to initiate research ideas and frameworks focused on integrating technology and data-driven approaches in the field.

ACHIEVEMENTS

- **Placed 2nd** in **SEISMO HACK 1.0 National Hackathon** conducted by **ISET**
- **Placed 3rd** in **Manipal Hackathon 2025** a National Hackathon conducted by **MAHE, MANIPAL**
- **Placed 1st** in **GEO HACK 1.0 2025** conducted by **IEEE GRSS SRMIST**
- **Placed 3rd** in **Pitch Perfect 2025** conducted by **Directorate of Alumni Affairs – SRMIST**
- **Placed as Runner Up** in **TechZooka 2025** conducted by **Infosys** in collaboration with **IIT Madras**
- **Placed 3rd** in **4th Open International Abacus Contest 2023** conducted by **MAATS PVT. LTD.**
- **Placed 2nd** in **Zonal Table Tennis Competition 2024** conducted by **Directorate of Education, Govt. of NCT of Delhi**
- **Placed 3rd** in **Zonal Table Tennis Competition 2018** conducted by **Directorate of Education, Govt. of NCT of Delhi**
- **6 X Abacus Champion** in **Annual Abacus Championship**
- **1 X Abacus Speed Champion** in **Annual Abacus Championship**

LANGUAGES KNOWN

English, Hindi, Kannada, Tamil, Telugu, Malayalam, German & Sasnkrit