NISHANTH JAYARAMAN

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EDUCATION

Bachelor of Technology in Artificial Intelligence and Data Science — Aug 2022 – May 2026
Sri Sairam Engineering College, Chennai, Tamil Nadu. — CGPA: 8.76

PROJECTS

Interview Practice Partner – AI Interview Simulation Agent | Live

- Developed an **AI interview practice platform** using Google Gemini that simulates real interview conversations across 8 job roles.
- Designed a **memory-driven conversational architecture** to maintain context, analyse user responses, and adapt question difficulty dynamically.
- Implemented **dual-mode interaction (chat and voice)** with speech recognition, real-time feedback generation, and structured interview evaluation metrics.

Herbica AI: Medicinal Plants Identifier Webpage | Live

- Constructed a Convolutional Neural Network (CNN) using TensorFlow to predict medicinal plant species from leaf images, achieving an accuracy of *93.7%* on the test set.
- Led end-to-end model development (data acquisition to deployment), reducing processing time by 35% and improving web UI responsiveness by 50%.

EXPERIENCE

Deloitte – Forage Platform, Virtual
Technology Job Simulation — *March 2026 – March 2026*

- Developed a Python solution to normalize telemetry data from multiple JSON formats into a unified structured schema.
- Implemented timestamp conversion and data transformation pipelines to standardize machine telemetry data.
- Designed a software development proposal for a factory monitoring dashboard tracking 36 machines across 4 factories

Cloud IT Solutions, Chennai, India
AI & Machine Learning Intern — *June 2024 – July 2024*

- Developed a Generative Adversarial Network (GAN) model using TensorFlow to generate synthetic data, improving data augmentation efficiency by 20%.
- Designed an Image Modification Percentage Calculator in Python, improving image processing accuracy by 25% through statistical analysis and feature engineering.

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL.
Problem Solving: Solved 450+ DSA problems across LeetCode, CodeChef, and GeeksforGeeks using Java and Python, familiar with time and space complexity analysis.
AI/ML & Deep Learning: Machine Learning, Deep Learning, Neural Networks, Gen AI, Agentic AI, LLMs, CNNs.
(Experience with frameworks such as TensorFlow/Keras, PyTorch, scikit-learn)
Data Processing & Visualization: Pandas, NumPy, Feature Engineering, Tableau, Power BI.
Relevant Coursework: Machine Learning, Data Structures & Algorithms, Database Management Systems, Operating Systems, Software Engineering.
Area of Interest: Artificial Intelligence, Data Science & Analytics, Web Design and Development.
Soft Skills: Public Speaking, Problem Solving, Critical Thinking, Self-learning, Presentation, Adaptability, Team Player, Collaboration.

PUBLICATION

Deep Learning Technique for Medicinal Plant Leaf Identification: Using Fine-Tuning of Transfer Learning Model - IEEE Xplore (OCTOBER 2024)

- Published in IEEE Xplore – DOI: 10.1109/ICICCS53718.2023.10780185

ACHIEVEMENTS

- Completed courses on NPTEL, Udemy, Coursera, Spoken Tutorial IIT BOMBAY, IIRS, LEARNATHON.
- Organized an auction-based job selection event incorporating budget strategizing and team management.
- Best Academic Performer Award – 4th semester.
- Runner of Intra-College Speech Competition, Winner of Essay Writing Competition.
- Hosted a National Conference on Advancement in AI and Emerging Trends.