

KONDU SRIVARDHAN

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Summary

Engineer with hands-on experience building full-stack applications and solving complex technical problems across domains. Proven ability to take projects from idea to deployment, backed by research, national hackathon wins, and real-world impact.

Freelance Experience

Freelance AI & DSA Trainer / Project Mentor

June 2022 – Present

Remote / On-site (India)

- Delivered hands-on training, mentorship, and project supervision in AI, Python, and DSA to over 500 students across 8+ institutions.
- Mentored real-world projects in NLP, Computer Vision, and core algorithm design using Python.
- Created and led problem-solving bootcamps targeting service/product-based placements.

Government Engineering College, Thrissur

Kerala, IN

- AI + Python trainer; guided students through final-year AI projects; achieved 92% placement outcomes.

Sridevi Women's Engineering College

Hyderabad, IN

- Delivered AI-focused sessions; mentored 150+ B.Tech students through mini-projects and interview prep.

Ballari Institute of Technology & Management

Karnataka, IN

- Taught Python + basic DSA; organized practice labs focused on recursion, sorting, and graph algorithms.

Annamacharya Institute of Technology & Sciences

Kadapa, IN

- Led AI + DSA workshops; helped students connect algorithm thinking to real-world ML model design.

Vignan's Institute of Information Technology

Visakhapatnam, IN

- Project mentor for image classification (AI) and search optimization (DSA).

SR University

Warangal, IN

- Trained students in DSA + AI tools for research projects; reviewed code quality and algorithm correctness.

Kakatiya Institute of Technology & Science (KITS)

Warangal, IN

- Led logic-building bootcamps using Python; mentored students on project structure and time-space optimized solutions.

Freelance Client Projects

UK

- Delivered AI-based automation tools, dashboards, and chatbots; mentored developers on reusable Python code and testing.
- Built and deployed ML models; assisted in backend DSA logic for recommendation systems and pattern detection.

Selected DSA + Python Mentorship Projects

Remote / On-site

- **Placement Prep Bootcamp** – Trained 100+ students in sorting, recursion, greedy, DP, trees, and graphs using Python.
- **Code Sprint Lab (for 3 colleges)** – Led 2-week competitive programming sprint with live problem-solving.
- **DSA Crash Course** – Designed and delivered modules with 200+ curated problems (LC/GFG level).
- **Mock Interview Platform (mini-project)** – Mentored students to build a DSA mock interview simulator using Python + SQLite.
- **Dynamic Path Planner** – Guided a project on shortest path algorithms (Dijkstra, A*) applied to logistics data.
- **Student Management CLI App** – Focused on implementing core DSA operations (linked lists, trees, hashmaps) in real use cases.

Newbie Learning — Teaching Assistant & AI Mentor

June 2022 – Jan 2024

Hyderabad, IN

- Mentored 50+ students in AI + DSA; improved code quality and logic-building skills by 40%.
- Built micro-projects in spam detection, chatbot design, and classic DSA puzzles.

Technical Skills

Languages: Python, C, C++, JavaScript

Web Development: HTML, CSS, Node.js, FastAPI

AI/ML & Deep Learning: TensorFlow, Scikit-learn, OpenCV, Transformers, Generative AI, LLM, LangChain

MLOps & Deployment: Docker, Git, Streamlit, FastAPI, AWS (EC2, S3), MLflow, REST APIs

Databases: MySQL, MongoDB

Academic Projects

Empathy AI – Generative AI-Powered Mental Health Assistant *Winner – Visionova Hackathon*

- Built a full-stack web app using React, Node.js, MongoDB, and Hugging Face Transformers.
- Integrated OpenAI APIs to deliver personalized, privacy-first mental health responses.
- Scalable to 100+ concurrent sessions; designed for ethical AI use in emotional support.

Sudoku Solver using Neural Networks

- Developed a real-time Sudoku solver using TensorFlow CNNs and OpenCV for grid and digit detection.
- Achieved 92% accuracy without traditional backtracking or constraint logic.
- Showcased the power of AI in structured vision-based problem-solving.

RefineX – AI-Powered Data Cleaning & EDA Assistant

- Designed a Streamlit app integrating OpenAI GPT for natural-language-based EDA automation.
- Enabled one-click data profiling and cleaning via conversational prompts.
- Reduced data preprocessing time by 60% across multiple datasets.

Publications & Research

Emotion Detection from EEG Signals using a CNN-Transformer Hybrid Architecture *(Ongoing)*

- Designing a deep learning model combining CNNs (for spatial pattern extraction) and Transformers (for temporal EEG signal modeling).
- Aims at real-time multi-class emotion classification for use in mental health and affective computing.
- Targeting submission to **IEEE EMBC** or **NeurIPS 2025**.

Neural Style Transfer – Published on Ready Tensor *View Publication*

- Built a pipeline for artistic image generation using pre-trained VGG19 to blend content and style images.
- Used Gram matrices and weighted content-style loss with Adam optimizer for stylization.
- Supports tunable blending via hyperparameters; built with TensorFlow, OpenCV, NumPy, Matplotlib.
- Demonstrates the role of DL in creative AI applications like design and digital art.

Education

B.Tech in Artificial Intelligence – Anurag University, Hyderabad, India

Expected 2026

CGPA: 8.9

12th (Science) – New Era Junior College, Hyderabad, India

2021

Percentage: 85.0%

10th SSC – Mudra High School, Hyderabad, India

2019

CGPA: 9.7

Certifications & Achievements

Winner, Visionova National-Level Hackathon – *Empathy AI*

Microsoft Certified: AI Fundamentals (AI-900) – *Microsoft*

Complete Data Science & Machine Learning Bootcamp – *Udemy*

Participant, International Computer Vision Competition – *Ready Tensor*