

SIRISHA O

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EXECUTIVE SUMMARY

Aspiring software developer with a strong foundation in Data Structures and Algorithms, seeking an opportunity to apply and further develop my skills. I am passionate about contributing to real-world projects within a dynamic team environment and am eager to learn from industry experts. I am excited to be a part of your organization's incredible growth journey and am confident that my dedication, problem-solving abilities, and enthusiasm for technology will add meaningful value to your team.

EDUCATION

Saveetha Engineering College | Chennai (2022 – 2026)

Bachelor of Technology

Artificial Intelligence and Data Science

CGPA : 8.5

Narayana Junior College | Nellore (2021 – 2022)

Senior Secondary (XII)

Percentage: 91.2%

Narayana Residential High School | Nellore (2019 – 2020)

Secondary (X)

Percentage: 99.33%

INTERNSHIP EXPERIENCE

Karthikeya Software Solutions (June 2024 – July 2024)

Web Designing and Development

- Developed a full-featured e-commerce site for computer accessories.
- Designed responsive and intuitive UI/UX for easy navigation.
- Built using HTML, CSS, and JavaScript for a scalable solution.
- Performed testing and debugging for cross-browser compatibility.

SKILLS

LANGUAGES Java • C • Python • SQL • JavaScript

FRONTEND ReactJS • HTML • CSS • Bootstrap

BACKEND SQL • MongoDB

NON-TECHNICAL Communication • Analytical Skills • Creativity • Leadership • Self Motivated

Languages

English

Telugu

Hindi

Tamil

PROJECTS

Machine Learning based Natural Disaster Prediction | Python, SQL, Machine Learning

- Developed a machine learning model to predict flood or drought based on rainfall patterns in India.
- Analysed rainfall data across daily, monthly, seasonal, and annual levels to identify disaster risks.
- Focused on feature selection and pattern recognition to improve prediction accuracy.

Micro plastic detection using Detectron 2 | Python, SQL, Detectron2, Machine Learning

- Built a computer vision model using Detectron2 to detect and classify microplastics in microscopic images.
- Trained and fine-tuned the model for high accuracy across various particle sizes and shapes.
- Applied skills in data annotation, image processing, model training, and Python programming for environmental research.

Software Reliability Prediction Using Ensemble Learning | Python, Flask, Machine Learning, HTML, CSS, JS

- It predicts whether a software module will be reliable or likely to encounter faults based on attributes like complexity, code size, number of functions
- Combines multiple models (using bagging, boosting, stacking) to capture different aspects of the data, leading to better generalization and highly accurate predictions.
- Provides a user-friendly web interface built with Flask, HTML, CSS, and JavaScript, allowing stakeholders to input module metrics and instantly receive a reliability verdict (with confidence), streamlining decision-making in ongoing development.

CERTIFICATES

Parallel Computing Architecture - Coursera

Operating System - Great Learning

Applied Artificial Intelligence - Infosys

Neural Network - Infosys

SmartED - Data Science

Dynamic Public speaking - University of Washington (Coursera)

ACHIEVEMENTS

- Attended in UI/UX Design the event in **Neuronex'25** at Velammal Institute of Technology (Symposium).
- Participated in **Minnal'25** at SIMATS Engineering College (National Level Technical Symposium).
- **Secured First** place in **Electronic Quiz (Minnal'25)** at SIMATS Engineering College.
- Presented a paper at Minnal'25 at SIMATS Engineering College
- Presented a paper titled "**Microplastic Detection Using Detector V2 Model for Qualitative Analysis of Oceanic Water on the Southern Coastline of India**" at **AI for the Oceans - 2025** at SRM Institute of Science and Technology.
- Actively participated in the 24-hour **Hackfest** organized by **Microsoft Learn Student Chapter** at **Siddharth Institute of Engineering & Technology**.
- Received **Certificate of Participation** in the **19th SOF National Science Olympiad**.
- Awarded a **Certificate of Recognition** for successfully coordinating the **Makeover and Ramp Walk** event as part of cultural festivities.