

# Chandra Sekhar Arasavalli

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## Summary

Passionate and results-driven Computer Science student with a strong foundation in software development, machine learning, and data science. Eager to learn and apply emerging technologies to create impactful, real-world solutions. Known for logical thinking, problem-solving abilities, and a dedication to building innovative systems that make a difference.

## Education

### Bachelor of Technology in Computer Science | 2022 - 2026

Swarnandhra College of Engineering & Technology, Seetharampuram, Narsapur

GPA: 8.59/10

**Relevant Courses:** Machine Learning, Data Structures, Algorithms, Database Systems, Data Science, Python, Java, SQL, MongoDB, Web Technologies, Computer Networks, AI Tools

### Intermediate, MPC | 2020 -2022

Sri Y.N.D.J college Narsapur

percentage: 61%

### Senior Secondary Education | 2020

MPL EM High school Peechupalem

CGPA: 9.8

## Skills

- **Programming Languages:** Python, Java, C, C++, JavaScript, Golang, PHP, Arduino Programming, Google AppScript
- **Frameworks/Libraries:** Flask, Django, AngularJS, React, Kivy, Bootstrap, Pygame, FastAPI, Streamlit, Leaflet.js
- **AI/ML:** TensorFlow, PyTorch, Keras, OpenCV, NLP, DL, ANN, CNN, RNN, GANs, Sentiment Analysis, Speech Recognition
- **Data:** SQL, MongoDB, PostgreSQL, EDA, Feature Engineering, Statistical Modelling
- **Dev Tools:** Git, Docker, Jupyter Notebook, Visual Studio, IntelliJ IDEA, Flowise, Linux
- **Cloud/Networking:** AWS, Google Cloud, Azure, RESTful APIs, FastAPI, Apache, Google Sheets API
- **Data Visualization:** Matplotlib, Seaborn, Power BI, Tableau
- **IoT:** Microprocessors, Sensors, PCB Designing, Drone Technology, 3D Modelling
- **Soft Skills:** Problem-Solving, Critical Thinking, Creative Thinking, Multitasking, Time Management
- **Languages:** English, Telugu, Hindi

## Work Experience

### Freelancing

#### 2D Game & Web Developer, VJtha Learning Educational [Startup](#) (Feb 2024 - Present)

- Designed and developed interactive 2D educational games (e.g., Cricket, Chess, Ashta Chamma, Heart Simulation) to boost student engagement
- Built custom quiz platforms and code evaluators supporting Python, C++, Java for real-time learning and assessment
- Engineered and deployed [VJtha Exam Platform](#), a scalable, low-cost online exam system with full-screen mode for mobile and desktop
- Simplified exam management by enabling easy test uploads, auto-evaluation, and real-time access for educators
- Platform actively used by **4000+ users** and **multiple colleges** for continuous assessment and practice

#### Web Developer, ZIDI Startup (Jan 2024 – mar 2025)

- Developed, deployed, and maintained responsive and interactive websites aligned with startup objectives
- Delivered cost-effective, scalable solutions including the company's main website and client-based projects
- Focused on creating flexible UIs with clean design, ensuring cross-device compatibility and performance

## Projects

### [Swarnandhran – Student Training Website](#)

- Developed an open-source, dynamic training platform for students to practice technical, verbal, and logical questions, including live and practice tests
  - Integrated a custom-built code playground (C, C++, Java, Python, JavaScript) using Docker—no third-party APIs used
  - Enabled non-technical mentors to manage content dynamically via Google Sheets API
  - Included user portfolio with skill stats, global ranking, and progress tracking
  - Showcased ability to deliver scalable, low-budget solutions with real-world usability
- Tech Stack:** Python, Flask, Web Development, Restful API, App Script, Google Sheets API, Docker

### Facial Attendance System

- Built a face recognition-based attendance system for automated student tracking
  - Sent real-time SMS notifications for absentees and generated attendance reports for management
  - Demonstrated expertise in ML, API integration, and Android UI with Python Kivy
- Tech Stack:** Software development, Python, OpenCV, Face Recognition, Kivy, KivyMD, MongoDB

### IoT-Based Live Bus Tracking System

- Developed a cost-efficient (under ₹2000) live tracking system combining RFID and GPS technologies
  - Enabled real-time tracking of bus location and student entry via web interface
  - Beneficial for college transport monitoring and student safety, accessible via student ID or bus number
- Tech Stack:** IOT, HTTP Request, RFID Technology, GPS, Leaflet.js (maps), Web Development, Google sheets API
- Hardware:** ESP32 (Wi-Fi Module), RFID Kit, Neo 6M GPS module, LCD Display, Led Lights

### Smart Checkout System

- Developed a smart billing system to reduce supermarket checkout delays using IoT and cloud-based integration
  - Enabled product barcode scanning via ESP8266 microcontroller and auto-upload to a Flask API over WiFi
  - Built dynamic web dashboards for customers (via QR scan) to view, update, and manage their trolley in real time
  - Designed a secure employee portal with login, trolley search, bill processing, and cancellation features
  - Managed data flow and product tracking using MongoDB Atlas, ensuring reliable and scalable backend operations
  - Gained hands-on experience with drone hardware, flight controllers, and telemetry systems
- Tech Stack:** ESP8266, Flask, Python, MongoDB Atlas, TailwindCSS, HTML/CSS, JavaScript, RESTful API

### Other Projects

- **Software Applications:** Smart City Assistant, College Management System, NSS Report Generator, Voice Assistant, Heart Disease Prediction
- **Web Applications:** Code Executor, Online Test Portal, Certificate Generator, NSS Blood Bank Page, Personalized Wish Platforms
- **2D Games:** Ashta Chamma (Traditional South Indian Game), 2D Cricket, Chess, Heart Simulation Game
- **IoT Systems:** Voice-Controlled Motor, Smart Home Automation, Automatic Irrigation System, Smart Water Tank, Auto Street Lighting System
- **Drone Technology:** FPV Drone

*The above projects showcase my skills in various technologies, equipping me to excel in the AI era.*

### Achievements

- **College:** 1<sup>st</sup> place in coding & AI & ML Presentation, 2<sup>nd</sup> Prize in Project Expo on same day
- **Unstop:** 4<sup>th</sup> place in Game Development Hackathon by ReneVerse
- **IEEE:** Vice Chair in IEEE, Conducted Technical Events in Inter-college level, Participated in IEE Extreme International coding competition.
- **IoT Mentorship:** IOT Mentor at Z.P High school, Lankala koderu
- **HackerRank:** 5 Star in Python and 3 Star in C lang
- **NCC:** Finalist in IDSSC Shooting Competition, 1<sup>st</sup> place in Boot pulling & Rigging competitions (IGC Camp)
- **NSS:** Best Volunteer Award, NSS Contingent Commander

### Course Certifications

- **C Programming – NPTEL** (Silver Medal)
- **Data Analytics using Python – NPTEL** (Silver Medal)
- **Python Basics – HackerRank**
- **Android Development – AICTE**
- **Google AI/ML Program – AICTE**
- **Ethical Hacking – AICTE**
- **NCC 'B' Certificate** (Grade: A)
- **NSS Volunteer Certificate**

### Hobbies

- Solving Algorithmic & logical Challenges
  - Exploring Emerging Tech
  - Designing Practical Tech Solutions
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