Siyona Bonam

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Education

IIIT-DM Kancheepuram (Chennai, Tamil Nadu) *Nov 2022 – Present*
BTech in Computer Science

Experience

SDE Intern - Chella Software, Madurai *May 2025 - July 2025*

- Developed a C binary file combiner that merged .DAT files from company servers. Leveraged AI-assisted prompt workflows to generate structured error/data logs, which were used to build a series of regression tests that significantly enhanced traceability and debugging efficiency.
- Developed a C binary file combiner that merged .DAT files from company servers using BOD/EOD markers, incorporated timestamp-based sorting, generated structured error/data logs, and applied a logic-driven architecture for seamless server-side integration.
- Developed a Python automation tool that created 550 synthetic finance portfolios by applying rule-based data parsing to equities, futures, and options.

Projects

Building a Large Language Model (LLM) from Scratch *Sep 2025 - Present*

- Implementing the architecture of LLMs step by step, including tokenization, embeddings, attention mechanisms, and transformers.
- Training small-scale transformer models to understand text prediction and generation workflows.

Dynamic Pricing for E-Commerce using RL *Feb 2025 - April 2025*

- Developed an RL-based pricing model to optimize product prices in real-time based on demand, competitor pricing, and market trends.
- Machine learning modules: Deep Q-Networks (DQN), Proximal Policy Optimization (PPO).

Human Pose Estimation *Dec 2024 - Feb 2025*

- Developed a real-time human pose estimation model using OpenCV, DNN, implemented key point detection, and skeleton visualization for motion tracking and analysis.
- Computer Vision: Pose Estimation, OpenCV, Deep Learning, DNN, TensorFlow.

Technical Skills

Programming: C++, C, Python, Node.js, MySQL, CSS, JavaScript
Tools & Platforms: Git, GitHub, Figma, Flutter, Android Studio
Core Concepts: Object-Oriented Programming (OOP), Data Structures.

Certifications

- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional

Soft Skills

- Problem-solving, Analytical, Ability to work independently, Teamwork, Communication, Time management .

Achievements

- National Player – Shooting, Qualified and Competed in 2021 and 2022.
- Secured 2nd place in SGF Shooting at the 64th National Shooting Championship, 2020.

Co-curricular

General Affairs Coordinator - IIITDM K *June 2024 - April 2025*

- Collaborated with a cross-functional team as a leadership member to organize campus-wide technical and cultural events in 2025.

Cultural Affairs Coordinator - IIITDM K *July 2023 - April 2024*

- Actively worked as part of the decor and hospitality team in Samgatha 2024.