Sidharthan S

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EDUCATION

- **Anna University Regional Campus** — Coimbatore, Tamil Nadu
  Bachelor of Technology - Artificial Intelligence and Data Science; CGPA: 8.1 — *Nov 2022 - July 2026*
  Courses: Artificial Intelligence, Big Data Analytics, Deep Learning, Probability and Statistics, Machine Learning, Soft Computing, Computer Networks and Databases

PROJECTS

- **ChronOS – Decentralized Semantic Intelligence for Spine Medicine ⍟:**
  - Developed a decentralized **multi-agent system** that converts historical spine surgery texts into ontology-linked, machine-readable knowledge graphs.
  - Built an automated pipeline integrating OCR (LandingAI), IPFS-based storage, semantic preprocessing (LlamaIndex), and NER with biomedical ontology mapping (GO, DOID, ChEBI, ATC). Integrated with OpenAI, OxiGraph, and OriginTrail's DKG.
  - **Tech Stack:** Python, TypeScript, IPFS (Pinata), LlamaIndex, OpenAI API, JSON-LD, OxiGraph, Biomedical Ontologies (May '25)

- **EduLedger – Blockchain-Based Online Exam Platform ⍟:**
  - Designed and developed a **decentralized**, voice-enabled examination platform with real-time proctoring, tab-switch detection, and smart contract-based integrity enforcement.
  - Developed features for admin and center control, including exam availability toggling, student submission tracking, and audit-ready decentralized access via smart contracts.
  - **Tech Stack:** Next.js, Thirdweb (Solidity), and Pinata (IPFS), SpeechRecognition API. (Apr '25)

- **Graphay: AI-Powered Financial Process Automation ⍟:**
  - Built an AI system to automate invoice processing, handling from receiving invoices via email to confirming payments, using smart technology to extract data and manage approvals.
  - Integrated features like automated email responses for missing info, Discord notifications for team approvals, and tracking all steps in a Google spreadsheet for easy oversight.
  - **Tech Stack:** Python, LangGraph, GPT-4o, API's - Google Sheets,Google Drive, Discord,Gmail API,Etherscan API (Apr '25) (Mar '25)

EXPERIENCE

- **SpineDAO** — Remote
  Team Lead - India — *Jun 2025 - Present*
  - Leading the Indian operations of **Spinediana Jones**, a global initiative focused on preserving the knowledge of traditional spine medicine.
  - Coordinated efforts to identify and digitize undigitized manuscripts from local libraries using OCR and AI embedding techniques.
  - Contributed to building **ChronOS**, a decentralized AI system integrating traditional medical texts into a structured, queryable knowledge base.

- **CloudZoo India Softwares Private Limited** — Onsite
  Data Analytics Intern — *Aug 2024*
  - Built a customer review sentiment analysis system using CloudZoo's internal review dataset.
  - Preprocessed data with TF-IDF vectorization for text feature extraction.
  - Trained and evaluated sentiment classifiers using **SVM**, **Naive Bayes**, and **Decision Tree** algorithms.

SKILLS SUMMARY

- **Languages**: Python, Java
- **Frameworks and Libraries**: PyTorch, Transformers
- **Tools and Technologies**: Docker, Git, PostgreSQL, Neo4j, Pinata (IPFS), Thirdweb (Blockchain), MCP
- **Platforms**: Cloud Computing, Hugging Face
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management
- **Interests**: Safe, Interpretable and Decentralized AI, Trends & Innovation

CERTIFIED COURSES

- Deep Learning using PyTorch (GUVI)
- Cloud Computing (NPTEL – Top 5%)
- Introduction to Large Language Models (NPTEL)
- Programming in Java (NPTEL)

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