Logu Ajith Kumar R

Aspiring IT professional with hands-on experience in blockchain and strong foundational skills in Python and Java.

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EDUCATION

Kanchi Sri Sankara Academy Matric Hr. Sec. School,
Tiruchendur — *SSLC,HSC.*

JUNE 2011 - AUGUST 2023

- Scored **88.3%** in Higher Secondary (HSC), specializing in **Mathematics-Biology.**
- Represented school as a **zonal-level volleyball player** for 3 consecutive years.
- Actively participated in multiple innovation competitions under the **ATAL Tinkering Lab** , and did many projects with arduino and won several prizes.
- Secured awards in inter-school and district-level **chess tournaments**, recognized for strategic thinking and consistency.
- Developed a strong independent interest in programming and computer science during school, leading to self-learning in programming.

Sri Shakthi Institute of Engineering and Technology,

Coimbatore - *B.Tech. IT.*

SEPTEMBER 2023 - PRESENT.

Acquired foundational knowledge of web technologies including HTML, CSS, and JavaScript.

- Studied core Java concepts such as classes, inheritance, and exception handling
- Independently explored blockchain concepts and began developing blockchain applications using Python

PROJECTS

PyCharmVault- *A console based blockchain project.*
Tech stack: Python, Flask, React, MongoDB, AES.
GitHub: *github.com/Yuvetal/PyCharmVault*

 Built a secure blockchain system with OTP verification, AES-encrypted JSON storage, and a React-based UI. Implemented monthly data archiving using MongoDB and automatic backup restore on chain tampering.
Currently extending backend functionality to interact with smart contracts using Web3.py.

SKILLS

- **Languages:** Python, Java (basic)
- **Concepts:** Blockchain fundamentals, JSON, Proof-of-Work, OOP
- **Tools & Libraries:** VS Code, Tesseract OCR, hashlib, cryptography
- **Learning:** Web3.py (backend), collaborating with frontend (React + Web3.js), Solidity (For Smart contract).

CERTIFICATIONS

- **Python Programming –** *CodeChef Beginner Track (40% complete)*
- **NPTEL–BLOCKCHAIN***(Self Paced Course). In progress.*
- **Advanced Diploma in Python Programming (ADPP)** *.Completed with an 'A' Grade | Completed after HSC during summer break (2023)*

LANGUAGES

English, Tamil, Japanese(Learning).

AI Conversational Chatbot – Gemini + Google Search Integration
Tech stack: Python, Google Generative AI (Gemini API), dotenv, Requests, JSON.
GitHub: *github.com/Yuvetal/Gemini_Integration*

Developed an intelligent chatbot using Google's Gemini API, capable of real-time conversation with contextual memory.
Integrated fallback to Google Custom Search for enhanced accuracy when confidence is low.
Implemented compressed chat history storage using JSON + Gzip for persistent sessions.

Sentiment Analysis Web App – Flask-based NLP Project
Tech stack: Python, Flask, Scikit-learn, HTML, CSS, Pickle.
GitHub: *github.com/Yuvetal/Sentiment_Analysis*

Built a web application that analyzes user-submitted text and classifies sentiment as positive, negative, or neutral.
Trained a custom ML model and deployed it using Flask for real-time inference through a responsive web interface.
Handled model persistence using Pickle and ensured modular backend architecture for scalability.

Voice Assistant – Python Automation Project
Tech stack: Python, SpeechRecognition, pyttsx3, OpenAI API, OS automation.
GitHub: *github.com/Yuvetal/Voice_Assistant*

Created a local voice-controlled assistant capable of recognizing commands, fetching responses from AI, and automating PC tasks.

Enabled text-to-speech feedback and continuous listening trigger to start interaction on command.

Focused on minimal latency and offline adaptability for basic actions.

Blockchain-based Supply Chain System – *A blockchain based supply chain tracking system*
Tech stack: *Python (Flask), React.js, HTML/CSS, JavaScript, Blockchain, QR Code, JSON Encryption.*
GitHub: *github.com/Yuvetal/SupplyChain_Blockchain*

Developed a blockchain-powered web application to ensure transparency and traceability of agricultural produce.
Implemented block creation, viewing, and validation using a custom blockchain with encrypted JSON storage.
Designed a responsive frontend with farmer login, produce tracking via QR code, and blockchain visualization.
Focused on data integrity, user-friendly UI, and secure communication between backend and frontend.