



EDUCATION

SIMATS School Of Engineering (Current)

B.Tech in Artificial Intelligence and Data Science
(2022- 2026)

Velammal Vidhyashram

- 12th Grade (2021) - (84% Marks)
- 10th Grade (2019) - (91% Marks)

TECHNICAL SKILLS

- **Programming Languages:** Python (Proficient), JavaScript (Competent), Lua (Competent), C (Competent), R (Competent), Java (Novice), C++ (Novice)
- **Markup Languages:** HTML, Markdown, TOML
- **Data Extraction:** Requests, Selenium, Scrapy, BeautifulSoup
- **Data Processing:** Pandas, NumPy, OpenCV, NLTK
- **Data Visualization:** Matplotlib, Seaborn, ggplot
- **Machine Learning:** Scikit-Learn, TensorFlow, PyTorch, Keras
- **API Development:** FastAPI, Flask, Websockets
- **Mobile App Development:** Kivy, BeeWare
- **Automation:** PyAutoGUI, Selenium, Android Debug Bridge
- **Other Tools:** Docker, Git, Notion

COMPETITIONS

- **Winner**, Python Discord Code Jam 2023

SPOKEN LANGUAGES

- English (Fluent)
- Tamil (Fluent)
- Telugu (Fluent)

CLUBS

Google Developer Club - Backend/Research Lead

- Made a Discord bot, that notifies the students based on their subscription on their interested courses.
- Provided insights on improving team management, by using tools like Click-Up

PREVIOUS EXPERIENCE

Freelancer

Upwork | 2020 - Present

- 4+ years of industry experience in data science and web scraping
- Developed robust, scalable solutions for complex data extraction challenges, including CAPTCHA bypass and dynamic content scraping
- Created ETL pipelines for efficient data processing and transformation
- Consistently delivered high-quality projects with 5-star client ratings on Upwork
- Created French News Chatbot with OpenAI and Text Embeddings

PROJECTS

ComiQ

- Developed an advanced Optical Character Recognition (OCR) library specifically designed for comics, combining traditional OCR engines like EasyOCR and PaddleOCR with Google's Gemini Flash-1.5 model.
- Implemented a hybrid OCR approach to provide accurate text detection and translation in comic images, handling challenges like text within speech bubbles and panels.
- Integrated the Gemini AI model to enhance the performance and accuracy of the OCR process.
- Designed a user-friendly Python interface for the library, allowing easy integration into various comic processing workflows.
- Contributed to the open-source project by adding new features, improving documentation, and fixing reported issues.

FlowQ

- Developed and deployed a plug-and-play distributed computing system
- Established secure, anonymous connections utilizing the Hack.Chat platform with fundamental encryption
- Integrated temporary file storage via FileBin for effective data management
- Allowed for seamless cluster scaling through straightforward Python commands and Google Colab integration
- Designed an intuitive API for task allocation and parallel execution

Code-Stego

- Led a team of four members and triumphed in the Python Code Jam 2023
- Developed a tailored steganography algorithm to seamlessly embed code within images
- Produced various implementations, including a Python module, a Django website, and a Discord bot
- Employed Docker for containerization, facilitating straightforward deployment and scalability
- Designed an intuitive Discord bot interface for encoding and decoding tasks