

# AARON SAM.AS

Dedicated and motivated professional with strong interpersonal skills and hands-on experience in service roles. Equipped with a diverse skill set and a commitment to delivering exceptional experiences. Eager to contribute positively to any team while continuously growing and learning. Holds certifications in acting, conflict resolution, and professional development programs.

## CAREER OBJECTIVE

Motivated professional with expertise in AI, Data Science, and Web Development. Passionate about solving problems and contributing to innovative projects. Seeking a dynamic role to apply AI, machine learning, and data analytics skills while continuously learning and growing.

## LET'S CONNECT



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[https://aaronsam-30052003.github.io/as\\_portfolio/](https://aaronsam-30052003.github.io/as_portfolio/)

<https://github.com/AaronSam-30052003>

## EDUCATION



### Bachelor of Technology

Sethu Institute of Technology  
[Department of Artificial Intelligence & Data Science]  
Virudhunagar, Tamilnadu  
(2021 - 2025)

### Grade 12th 86.16%

Seventh day Adventist Higher Secondary  
School, Madurai-16, TamilNadu  
2020-2021

### Grade 10th 75%

Seventh day Adventist Higher Secondary  
School, Madurai-16, TamilNadu  
2018-2019

## TECHNICAL SKILLS

- Programming & Web Development: Python, Java, SQL, HTML, CSS, JavaScript
- Artificial Intelligence & Machine Learning: TensorFlow, PyTorch, Scikit-learn, OpenCV, Hugging Face
- Deep Learning & NLP: CNN, RNN, Transformers, NLTK, Spacy, Pytesseract
- Data Science: Pandas, NumPy, Matplotlib, Seaborn
- Database : MySQL
- Design & Visualization: Canva, Power BI
- Version Control & Deployment: Git, GitHub

## SOFT SKILLS

- Problem-Solving
- Time Management
- Active Listening
- Public Speaking
- Teamwork

## LANGUAGES

- Tamil
- English

## PROFESSIONAL EXPERIENCE

### Infosys Springboard Internship 5.0 – AI & Data Science Intern

- December 2024 - February 2025 | Remote
- Project: Supply Chain Disruption Prediction
- Worked with ERP system integration to automate inventory adjustments.
- Implemented real-time alert systems using Slack or Email for proactive decision-making.

### Agiliz Tech – AI & Prompt Engineering Intern

- Nov 2023 – Dec 2023 | Bangalore, Karnataka
- Project: Developed a Medical Chatbot to assist patients with queries
- Applied Generative AI techniques & prompt engineering
- Worked on enhancing chatbot accuracy and response efficiency

### Knowledge Solutions India – Python Programming Intern

- May 2023 – October 2023 | Remote
- Project: Cable TV Management System (SQL integrated with Python)
- Gained hands-on experience in Python programming and SQL database management..
- Improved problem-solving abilities by debugging and troubleshooting real-time issues.

## CONSULTANCY PROJECTS

### Automatic Screw Counting System – Indo Metal Tech, Chennai (March 2024 – April 2024)

Developed an OpenCV-based screw detection system, automating counting and reducing errors. Successfully deployed and in use.

### Press Clipping Management System – Indian Railways, Madurai (August 2024 – October 2024)

Built a web-based platform for managing and archiving railway news clippings, improving accessibility and eliminating data loss issues.

## TECHNICAL IMPLEMENTATIONS

### Machine Learning

- Stroke Prediction Model** – Built a predictive model using Random Forest Classifier to assess stroke risk based on patient health data.
- Parkinson's Disease Detection** – Developed a diagnostic system leveraging XGBoost, Logistic Regression, and Support Vector Classifier for accurate early detection of Parkinson's disease.

### Deep Learning

- Diabetic Retinopathy Classification** – Utilized InceptionV3 and ResNet50 to accurately detect and classify retinal disease from medical images.
- Pneumonia Detection** – Developed a CNN-based model to classify and identify pneumonia from chest X-ray images.

Natural Language Processing

- **Essay Evaluation (SpaCy)** – Provides automated scoring and constructive feedback on essays to enhance writing quality.
- **Grammar & Spell Checker (LanguageTool)** – Detects and corrects grammatical, spelling, and punctuation errors for error-free writing.
- **Multilingual Chat Translator (GoogleTrans)** – Enables real-time translation of chat conversations for seamless communication across languages.
- **Text-to-Speech & Speech-to-Text:** Created an accessibility tool for visually and hearing-impaired individuals to convert text and speech seamlessly.
- **Named Entity Recognition (SpaCy):** Designed an NER model to extract key entities from text, aiding in information retrieval and text analysis.

Generative AI

- **Blog Writing Assistant (Grog)** – AI-powered tool that helps generate engaging and well-structured blog content efficiently.
- **Code Debugger (Grog)** – Automatically detects, analyzes, and fixes coding errors to enhance software development.
- **Emotion-Based Story Teller (Grog)** – Creates personalized stories based on user-selected emotions, improving creative writing.
- **Automated Hiring Process (Gemini 1.5-Flash)** – Streamlines recruitment by automating ATS checks, resume screening, and virtual interviews.
- **Sales Mail Generator (Grog):** Automated the generation of personalized sales emails, improving outreach efficiency for businesses.
- **Research Paper Summarizer (Grog):** Created a tool to condense research papers into concise summaries, aiding researchers and students.
- **Text-to-SQL Query Converter (Grog):** Built an AI system to convert natural language into SQL queries, making database querying accessible.
- **YouTube Summarization (Gemini 1.5 Flash):** Developed an AI tool to summarize YouTube videos, saving time for users looking for quick insights.

PRESENTATIONS

- Presented a project at **MTS Nanda Student Innovation Award**, showcasing technical innovation and problem-solving skills.
- Delivered a presentation at **Hack4Change by The Nudge Institute & Google**, demonstrating AI-driven solutions and technical expertise.
- Participated in the **National Entrepreneurship Conclave at Lead College**, showcasing innovative business ideas.
- Presented a project at the Project Expo held at **SRM College**.
- Competed in **India's G20 Competition**, demonstrating problem-solving and strategic thinking.
- Took part in the Ideathon at **ACIC-Kalasalingam** Innovation, contributing creative solutions.
- Engaged in the Ideathon at **KPR Engineering College**, presenting innovative concepts.
- Competed in the National Level Online Project Competition by **IEEE – Guru Nanak Institutions Technical Campus**, showcasing technical expertise.

PUBLICATIONS

- **Detectiverse:Advancing Supply Chain Efficiency with AI-Enhanced Screw Counting**  
Published in Journal of Image Processing & Pattern Recognition Progress
- **Designing and Developing a Cancer Chatbot in a Website**  
Published in Journal of Multimedia Technology & Recent Advancements

CERTIFICATIONS

- Completed UX Design by Google on Coursera.
- Earned a certification in Google Analytics using Python on Coursera.
- Gained expertise in Python Programming and Web Development.
- Successfully completed three NPTEL courses: Cloud Computing, Internet of Things, and Joy of Computing using Python.
- Certified in Artificial Intelligence Primer by Infosys Springboard.
- Completed Generative Models for Developers on Infosys Springboard.
- Acquired skills in Machine Learning, Deep Learning, and Data Science with Python on Udemy.

WORKSHOP

1. Attended a Microsoft Office Using AI Tools workshop to explore AI-driven features in Microsoft applications.
2. Completed a Python Workshop at Kalvi Higher Educational and Research Institute, gaining hands-on programming experience.
3. Participated in an Artificial Intelligence and Machine Learning Workshop conducted by Vinsup Academy, learning foundational concepts and applications.
4. Engaged in a Mobile Application Development Workshop by S7R Technology, focusing on app design and development techniques.

HACKATHON

Won 2nd Prize in a Hackathon conducted by Oasys Cybernetics Pvt. Ltd. and Inext Labs. Developed an AI Automatic Recruitment Pipeline under the Generative AI theme within three days, from ideation to completion.

CONFERENCE

- Participated in the Emerging Trends in Information and Communication Technologies conference, gaining insights into advancements in IT and communication technologies.
- Attended the International Conference on Emerging Electrical Systems and Control, exploring innovations in electrical systems and automation.