

AADHI KABILAN J

DATA SCIENCE | MACHINE LEARNING | PYTHON | SQL

• Puducherry, India • aadhikabilanj@gmail.com • linkedin.com/in/aadhi-kabilan-j-b840751bb
• github.com/AadhiKabilan • 7604940996

PROFESSIONAL SUMMARY

B.Tech Information Technology graduate from Puducherry Technological University (CGPA 8.88/10) with hands-on experience in machine learning, data analysis, AI applications, and full-stack development. Skilled in Python, SQL, Scikit-learn, LightGBM, Keras, OpenCV, and local RAG/LLM technologies. Experienced in developing practical AI and data-driven applications using machine learning and modern Python frameworks.

TECHNICAL SKILLS

Programming	Python, Java, SQL
Data & Machine Learning	NumPy, Pandas, Scikit-learn, Keras, LightGBM
Web & Backend	FastAPI, React.js, HTML, CSS, PHP, Tailwind CSS
Databases	MySQL, Oracle

SELECTED DATA SCIENCE & AI PROJECTS

Polymorphic Malware Detection using Machine Learning Aug 2025 – Oct 2025	- Developed a Python-based antivirus prototype with a Tkinter GUI to scan and detect potentially polymorphic malware using machine-learning-based analysis. - Built an ensemble detection pipeline using Random Forest and LightGBM, with SelectKBest feature selection and process-level monitoring for identifying suspicious activity.
Government Tender Intelligence System (GTIS) May 2026 – Aug 2026	- Developed a local-first tender intelligence system to collect, extract, search, and analyze government tender information from multiple e-procurement sources. - Built a RAG-based retrieval workflow using ChromaDB and local Ollama models to semantically retrieve relevant tenders and match opportunities with company requirements.
Age Prediction Application Apr 2025 – Jun 2025	- Developed an ML application for facial-image age prediction using computer-vision preprocessing and Keras-based neural-network inference. - Integrated image preprocessing, model inference, and application logic into an end-to-end prototype.
Automated SEO Auditor & Fixer Nov 2025 – Apr 2026	- Built a local AI-assisted SEO auditing application with a FastAPI backend and React frontend to identify website SEO issues. - Integrated a local LLM and retrieval-based workflow to analyze issues and generate practical SEO fixes without paid cloud AI APIs.

EXPERIENCE

Full-Stack Development Intern | Star Scans and Labs | May 2025 – Jul 2025

- Designed, developed, and deployed a diagnostic-services website using PHP, Tailwind CSS, and MySQL, including online appointment booking and email notifications.
- Contributed to a Patient Data Management and Billing System using Python/MySQL and supported digital-marketing content creation.

Web Development Intern | Annai Care Industries | May 2024 – Jun 2024

- Designed and developed a company website for a medical-equipment distributor using HTML, CSS, PHP, and MySQL.
- Implemented dynamic database content and performed testing/debugging for functionality, reliability, security, and usability.

ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE	SCORE	YEAR
UG	Information Technology	Puducherry Technological University	88.8%	2026
Class XII	Computer Science	Karaikal Ammayar Higher Secondary School	83.33%	2022
Class X	General	Servite English High School	82.8%	2020

PUBLICATIONS

A Comprehensive Survey on Search Engine Optimization: From Traditional Techniques to AI and LLM-Based Approaches

International Journal of Sciences and Innovation Engineering (IJSI), Vol. 03, Issue 04, April 2026

DOI: 10.70849/ijsci03042617675 | **Pages:** 2395–2405

Co-authored a literature survey examining the evolution of SEO from traditional optimization techniques to machine learning, semantic search, RAG, and LLM-based approaches.