

KAMALAM SIVAKUMAR

+91-9585518718 | kamalamsivakumar@gmail.com Current Role: AI/ML Research Engineer
github-kamalamsivakumar | linkedin-kamalamsivakumar

PROFICIENT

Python	tensorflow, keras, pandas, numpy, scikit-learn	C++
Machine Learning	LangChain, Huggingface	SQL
Deep Learning	AWS & Azure	

NOVICE (CAPABLE & LEARNING)

django
streamlit
Git

EDUCATION & CERTIFICATION

M.Sc Data Science (Integrated) | 2017 - 2022
PSG College of Technology, Coimbatore, India
Grade: 8.53/10
AWS Solutions Architect Associate

INTEREST AREAS

Reinforcement Learning
Preference Learning
Interpretability

PROJECTS

spectra_net [code]

Deep Learning and Clustering for Hyperspectral Image Classification. Aims to compare CNN and Clustering Algorithms. While K-Means showed better separation, both clustering algorithms demonstrated moderate performance relative to the CNN's accuracy.

schedule_it [code]

Task Scheduler developed using Reinforcement learning techniques such as Q-Learning and Double Q-Learning, using Python.
The tasks are scheduled based on the CPU and Memory resources available at a single point in time.

clip_search

Developed and productionized an advanced image retrieval system leveraging CLIP for a design/embroidery client. Built a vector store of image embeddings and implemented efficient search via Azure services.

heldig-selective (On-going project)

Developing a model to customize wallpaper selections in a random generator app by fine-tuning user preferences with ORPO. The project is ongoing, focused on boosting recommendation precision.
Future Work: Plan to explore model interpretability to assess ORPO's impact on preference alignment.

PROFESSIONAL EXPERIENCE

Kryptos Technologies, Chennai
AI/ML Research Engineer

May 2024 - Present

- Leveraging gen-ai to effectively handle admin tasks such as transcription and proposal writing.
- Aiding development and integration of gen-ai tools within Customer Solutions.
- Researched, developed, and integrated Gen-AI tools into Customer Solutions, delivering multiple PoCs tailored to customer needs.

Everstage, Chennai
Business Analyst

Oct 2023 - Feb 2024

- Developed a comprehensive understanding of customer data requirements
- Contributed to enable stakeholders with reports, for them to gather insights.
- Collaborated with the internal Revenue Operations (RevOps) team to support various tasks.

Jan 2022 - Aug 2023

KPMG, Bengaluru
Consultant

- Audit Analytics: Automated audit processes using Python and Alteryx, speeding up process handling. Refactored a process, reducing runtime from 2 days to just 10 minutes—a 99.65% improvement in efficiency.
- AWS Solutions: Built a pipeline with Kinesis, Glue, S3, and Redshift to process and store streaming data.

HCL Technologies, Noida
ERS Team Intern

Jul 2020 - Oct 2020

- Designed Price comparison logic for Industrial Customers to manage their Inventory and update minimum prices effectively.
- Developed intricate backend logic for scraping and refining data sourced from competing websites. Continuous learning and improvement of software development processes also focused on learning best practices.