

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 <ul style="list-style-type: none">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.	May 2024 - Present
Everstage, Chennai Business Analyst <ul style="list-style-type: none">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.	Oct 2023 - Feb 2024 Jan 2022 - Aug 2023
KPMG, Bengaluru Consultant <ul style="list-style-type: none">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 <ul style="list-style-type: none">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.	Jul 2020 - Oct 2020