

# Kamalam Sivakumar

Chennai, India | +91-9585518718 |

[kamalamsivakumar@gmail.com](mailto:kamalamsivakumar@gmail.com) | [linkedin](#) | [Github](#)

## EDUCATION

---

**PSG College of Technology**, Coimbatore, India

June 2017 - July 2022

**M.Sc Data Science: (Integrated)**

**GPA:** 8.53 / 10

**Course Highlights:** Calculus, Graph Theory, Applied Statistics, Network Science, Stochastic Modelling, Machine Learning, Deep Learning, and Randomised Algorithms

## PROFESSIONAL EXPERIENCE

---

**Kryptos Technologies, Chennai** May. 2024 - Present  
**AI/ML Scientist**

- Designed and implemented generative AI solutions for the legal sector, including ChatGPT-like applications.
- Delivered PoCs for transcription, inventory management, and proposal generation using Azure technologies.
- Enhanced customer operations by integrating generative AI tools into end-to-end solutions.

**Everstage, Chennai** Oct. 2023 - Feb. 2024  
**Business Analyst**

- Analyzed customer data to deliver actionable insights and reports for stakeholders.
- Collaborated with RevOps to streamline operations and support key processes.

**KPMG, Bengaluru** Jan. 2022 - Aug. 2023  
**Consultant**

- Automated audit processes with Python and Alteryx, reducing runtime by 99.65% (2 days to 10 minutes).
- Built an AWS pipeline using Kinesis, Glue, S3, and Redshift for processing streaming data.

**HCL Technologies, Noida** Jul. 2020 - Oct 2020  
**ERS Team Intern**

- Developed price comparison logic to optimize industrial inventory by analyzing prices from e-commerce websites.
- Improved software development processes through best practices.

## PROJECT EXPERIENCE

---

### spectra-net

- Compared CNN and clustering algorithms for hyperspectral image classification.
- Evaluated K-Means clustering, which showed superior separation of data.
- Found that both clustering algorithms exhibited moderate performance relative to the higher accuracy achieved by the CNN model.
- Github: [github.com/spectra-net](https://github.com/spectra-net)

### clip-search

*Kryptos Technologies*

- 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

- Developing a model to personalize wallpaper selections in a random generator app by fine-tuning user preferences using ORPO to enhance recommendation accuracy.
- Future Work: Explore model interpretability to evaluate ORPO's effectiveness in aligning with user preferences.
- Github: [github.com/heldig-selective](https://github.com/heldig-selective)

## SKILLS

---

- Programming Skills:** Python, C++, Java, SQL, Designing and implementing APIs
- Technical Skills:** Machine Learning - Deep Learning, Reinforcement Learning, torch, tensorflow, keras, scikit-learn LangChain, Huggingface
- Infra Skills:** Linux, AWS, Azure, Docker, FAISS, Azure Search

## CERTIFICATIONS

---

- AWS Solutions Architect Associate - July 2022
- Azure AI Fundamentals - August 2024

## INTERESTS

---

- Reinforcement Learning:** Developing strategies for efficient decision-making.
- Interpretability:** Creating transparent and understandable AI models.
- AI Planning:** Expertise in Markov Decision Processes (MDP), stochastic modeling, and heuristic approaches.