

Kamalam Sivakumar

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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 - Mar 2025

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

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

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.