Kamalam Sivakumar

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NYU Tandon MS Robotics | August 2025 – May 2027
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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 Randomized Algorithms*

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

CERTIFICATION

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

INTERESTS

- *Reinforcement Learning*: Developing strategies for efficient decision-making.
- *AI Planning*: Markov Decision Processes (MDP), stochastic modeling, and heuristic approaches.

PROFESSIONAL EXPERIENCE

Kryptos Technologies, Chennai May 2024 - Mar 2025
AI/ML R&D Engineer
- 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 hyper spectral image classification.
- Evaluated K-Means clustering, which showed superior separation of data.
- Both clustering algorithms showed moderate performance compared to the CNN's higher accuracy.
- 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 embedding and implemented efficient search via Azure services.

heldig-selective
- Personalized wallpaper generator by fine-tuning user preferences with ORPO to boost recommendation accuracy.
- Github: github.com/heldig-selective