

KAMALAM SIVAKUMAR

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Current Role: AI/ML Engineer

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

ABOUT

Holds a Master's degree in Data Science with over two and a half years of experience as a Big4 Consultant, Business Analyst, and AI/ML Engineer. An inquisitive data enthusiast with a passion for solving bespoke real-world problems, demonstrating strong ownership and accountability. Possesses a relentless learner's mindset and a never-give-up attitude.

PROFICIENT

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

NOVICE (CAPABLE & LEARNING)

django
streamlit
Git

PROFESSIONAL EXPERIENCE

- Kryptos Technologies, Chennai

May 2024 - Present

AI/ML Engineer

 - 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.
- Everstage, Chennai

Oct 2023 - Feb 2024

Business Analyst

 - 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.
- KPMG, Bengaluru

Jan 2022 - Aug 2023

Consultant

 - Audit Analytics: Worked on understanding the requirements and built routines for The Audit Functional Team. Employed data handling techniques and enabled the Client Audit Team to methodically process the data faster. Automated audit processes, used Python and Alteryx extensively for the same.
 - AWS Solutions: Using AWS Kinesis and Glue built a pipeline that processes streaming data from S3 onto Redshift Database schema. Designed backend to consume and make use of stored data in business-specific applications.
- HCL Technologies, Noida

Jul 2020 - Oct 2020

ERS Team Intern

 - 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.

PROJECTS

- lingoloom novititate

Completed foundational NLP projects, mastering techniques with tools like NLTK, spaCy, BERT, and VADER. Key projects included disaster tweet analysis, sentiment analysis, ABSA, custom NER model development, and question answering using BERT and Hugging Face Transformers. Also explored question answering and text generation with LLMs and vector databases. Technologies: NLTK, spaCy, VADER, BERT, Hugging Face Transformers, PyTorch.
- clip_search

Developed an advanced image retrieval system leveraging CLIP (Contrastive Language-Image Pre-Training). Constructed a vector store composed of image embeddings. Implemented efficient search functionality that returns relevant images based on text queries.
- spectra_net

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

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.
- 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.