Jayaraman Sridharan

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EDUCATION

Master of Science - Intelligent Systems Engineering　　　　**August 2022 - May 2024**
Indiana University, Bloomington, IN
Relevant Courses: Machine Learning, Deep Learning Systems, Computer Vision, Graph Machine Learning, High-Dimensional Data Analysis, Engineering Cloud Computing

Bachelor of Technology - Electrical & Electronics Engineering　　　　**2015 - 2019**

SKILLS

Machine Learning, Deep Learning, Computer Vision, NLP, Generative Models, MLOps
Libraries:　　　Tensorflow, Pytorch, Hugging Face, Scikit-learn, XGBoost, Django, Flask
Languages:　　Python, JavaScript, SQL, HTML, CSS, R, C++
Cloud & Data:　GCP, Terraform, Snowflake, Docker, Apache Beam, Dataflow

EXPERIENCE

Machine Learning Engineer, *Infosys, India*　　　　**Jan 2021 - July 2022**

• Developed an automated invoice processing system that reduced manual processing time by 95%. Engineered an OCR pipeline by training an object detection model to identify tables in invoices and extract text from scanned PDFs of invoices.

• Leveraged NLP libraries and models like spaCy, NLTK and HuggingFace to build multiple proof of concept projects. Trained multiple models and deployed them as APIs for Named entity recognition, Sentiment Analysis, Text Summarization and Similarity Detection.

• Containerized multiple ML applications and APIs using Docker for seamless deployment.

Systems Engineer, *Infosys, India*　　　　**Nov 2019 - Jan 2021**

• Migrated PowerQuery views to Snowflake using SQL and developed procedures and tasks for effective database management.

• Instrumental in the seamless transition from a monolithic legacy application to a modern microservices architecture using Angular and Flask.

PROJECTS

Single-GPU LLM Training using LoRA

• Implemented LoRA from scratch to finetune Large Language Models on limited resources

Image Colorization using Generative Model

• Trained autoencoders and Generative Adversarial Network to colorize black & white images.

Cloud Document Processing Pipeline using Apache Beam

• Created a Scalable pipeline using Beam & Dataflow to process multitude of documents.

Disaster Response Messages Classification

• Created an ETL and ML pipeline to load, store and classify the disaster response messages.

AWARDS & CERTIFICATIONS

Winner of the AI Blitz #3 Hackathon - Solved 5 machine learning problems across the domains of Computer vision and Natural language processing.

Open AI Caribbean Challenge: Top 2 % - Satellite Image Classification

RSNA Intracranial Hemorrhage Detection Hackathon: Top 12 % - CT Scans Classification

Associate Cloud Engineer Certification - Google Cloud

Deep Learning Specialization - Deeplearning.ai, Coursera