

Arvind Sharma

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EDUCATION

SASTRA Deemed to be University

Bachelor of Technology in Computer Science Engineering

Thanjavur, Tamil Nadu

June 2020

- **Cumulative GPA:** 8.5411
- **Awards & Honors:** Dean's Merit List(Top 10% in CS Department) for Academic Year 2016-17,2017-18,2018-19,2019-20;
- **Selected Coursework:** Programming in C++, Data Structures, Digital Image Processing, Data Mining and Warehousing, Machine Learning Techniques

TECHNICAL SKILLS (*Technical Knowledge, little Hands-on experience)

Languages: Python, Java, YAML, C++

Frameworks/Packages: NumPy, Pandas, scikit-learn, transformers, OpenAI, langchain, llama.cpp, diffusers, Tensorflow, Pytorch, spaCY, Docker, Kubernetes, Istio, FastAPI, Springboot, Postgresql, Git, Helm Charts, Ansible, Redis*, Terraform*, Apache Kafka*

Cloud Platform: AWS (EKS, EC2, Cloud Formation, ECR, IAM, S3), GCP (GKE, Buckets, VM, Cloud Vision API), Azure (VM, Disk, OpenAI)

Developer Tools: MS-Excel, MS-Word, VSCode, Anaconda, GitLab/Github, Swagger editor, Postman

WORK EXPERIENCE (3+ years)

Tata Consultancy Services

Systems Engineer

Chennai, Tamil Nadu

October 2020 – Present

Selected Project Experience:

- CTO Taskforce, TCS (August 2022 – Present)
 - Market Research and Data Analysis on multiple business related data to enable Strategic Business choices.
 - Ideating and Building Generative AI Solutions, Use cases and POCs using Large Language Models and Vector DBs.
 - Use cases include designing and leading a team to create a workflow for Pet Services using OpenAI and Fine-tuned Stable Diffusion XL model with refiner.
 - POCs include Talking Avatars, Sales Bot and Policy Enforcement using Agents, Prompt Engineering with Open Source model.
 - Worked with Quantized Open source models using llama-cpp-python and explored Generative AI open sourced projects.
 - Studying and Presenting new Generative AI research and Solutions to multiple stakeholders.
- Corporate Labs (STIL & CMI Rapid Labs), TCS (July 2021 – July 2022)
 - Developed and Documented Sales based use cases using NLP techniques as part of Sales and Technology Innovation Lab (STIL)
 - In Rapid Labs, developed rapid state of the art Artificial Intelligence solutions (NLP, Image Processing/Computer Vision, Graph NN) as part of POCs and use cases for various Clients across Communication Media and Information Unit of TCS.
 - POCs include Speaker Diarization, Automated Image Annotation using Vision API, Q&A tasks using Transformers.
 - Gained competency in 5G core technology and worked on orchestration of application containers using Kubernetes(EKS).
 - Use cases include Edge Video Analytics Application, Application platform for Ecosystem based solution. I took responsibility for Development, Automation of Infrastructure using Cloud Formation and Ansible, Container Orchestration using Kubernetes(EKS) and Network Mesh using Istio for the mentioned use cases.
 - Studying and presenting multiple emerging technology across domains and latest open source libraries to multiple stakeholders.
- Telefonica, UK (December 2020 – June 2021)
 - Took responsibility for monitoring of Big Data modules, which provides key insights about the customers.
 - Part of production upgrade Team, took responsibility for Analytics Application's compatibility with upgraded Environment. Achieved Zero Data loss.

Universitat Autònoma de Barcelona

Research Intern (Exchange Student), Centre de Visió per Computador

Barcelona, Spain

February 2020 – July2020

Selected Project Experience:

- Acquisition of Hyper Spectral Images and Pre-Processing
 - Processing and collection of Multiple Bands belonging to different spectral intensities to form an Image Band Cube.
- Semantic Segmentation Network for Classification
 - Trained U-Net model with Band Cube of an Image and its corresponding Annotated Images as Inputs.

BroadSoft

Intern

Chennai, Tamil Nadu

November 2017 – December 2017

- Got hands on experience with Software Development Life Cycle. Worked under Development team.