

Arvind Sharma

+91-9176076208 | karvind1998@gmail.com | linkedin.com/in/arvindsharma18

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;

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 (AKS,VM, Disk, OpenAI)

Developer Tools: MS-Office Tools, VSCode, WSL, Anaconda, GitLab/Github, Swagger editor, Postman

WORK EXPERIENCE (3.5+ years)

Tata Consultancy Services

Machine Learning Engineer/Developer

Chennai, Tamil Nadu

October 2020 – Present

- CTO Taskforce(August 2022 – Present)
 - Product Lead and Lead Developer, handling Requirement Analysis, Design and Delivery of MVPs for an AI powered Product.
 - Consulting, Ideating and Building Generative AI Solutions, Use cases and POCs for various Business Domains/Verticals.
 - Use cases include Finetuning and RLHF Open source models on custom datasets, designing and leading a team to create a workflow using OpenAI and Fine-tuned Stable Diffusion XL model with refiner, Domain pipeline Automation using GPT3.5.
 - POCs include Talking Avatars, Sales Bot and Policy Enforcement using Agents, Prompt Engineering with Open Source model.
 - Worked with AI open source projects like Auto GPT, Stable Diffusion Web UI, llama.cpp, vLLM, OpenLLM, Langchain, TRL etc.
 - Market Research and Data Analysis on business related data to enable Strategic Business choices on Emerging Technology.
 - 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 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

- Acquisition of Hyper Spectral Images and Pre-Processing
 - Collection and Processing 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.

ADDITIONAL

- Cricket player having represented school teams and club teams in State level tournament. Football player having represented school for Inter-School tournament. Follow Badminton, Tennis and Mixed Martial Arts, Motor Sports closely.
- Hobbies include Sketching, Movies and Anime, Photography, Music and Books.