JYOTHISH
CHANDRASENAN

Seeking a permanenant opportunity to apply my experience and knowledge in the field of Artificial Intelligence including analysing data, designing AI models, deploying models into production in a scalable, reliable and robust manner

 GitHub   Linkedin   reach.jkcg@gmail.com   Paris, France

AI ENGINEER   +33 7 66 30 29 56   EPITA   MINES PARIS | PSL

WORK EXPERIENCE

Deep Learning Engineer | Ryte AI | Paris, France
(September 2023 – May 2024) - Contract

- Productionalized an **AI pipeline** for photo selection that includes **Image Restoration**, **Super Resolution, Face Detection and Background Removal**
- Implemented identification search based on **Vector Embeddings** and similarity search using **FAISS**.
- Medical Question Answering using **Retrieval Augmented Generation (RAG)** with **LangChain**.

Deep Learning Engineer | Automi AI |Paris, France
(September 2022 – August 2023) - Permanent

- Created scripts for training computer vision tasks Object Classification (**ResNet, ViT**), Object Segmentation (**U-Net**), Object Detection (**YOLO**) and using **PyTorch** Framework.
- Integrated **Segment Anything Model (SAM)** into Annotation toolkit.
- Created containerized Workflow orchestration of Machine Learning pipeline using **Docker**, **Kubeflow** and **Vertex AI** in **GCP**.
- Deployed ML Models using **Fast API** and **Triton Inference Server**.
- Implemented **Multi GPU training** using **Data Distributed Parallel (DDP)** strategy.

Research Engineer | Mines Paris – PSL University |Paris, France
 (March 2022 – August 2022) - Contract

- Comprehensive study on Datasets algorithms, and ongoing advancements in Human Pose Estimation and Action Recognition by **Reading Research Papers** from **ArXiv** and **Papers with Code**
- Developed a feedback providing AI model for a sports client using Human Pose Estimation algorithms(**Blazepose, Movenet**).

Analyst – Verizon |Chennai, India
(June 2016 – January 2019) - Permanent

- Created automation scripts using Python and Robot Framework for Middleware application testing, XML validation and database testing.
- Automation Testing of multiple product launches for the application including BHR5, WFE, FNE, Presale etc
- Trained a team of five for the adoption of automation tools which achieved 70% reduction in testing efforts.

Systems Engineer – Tata Consultancy Services | Chennai, India
(January 2014 – May 2016) - Permanent

- Developed Automation Scripts for the functional testing of web-based applications for the client using Java, Selenium and TestNG.
- Developed Automation framework SHAFT (Selenium with Hybrid Automation Framework for Testing)

TECHNICAL SKILLS

Programming: Python, SQL, Bash

Deep Learning: ANN, CNN, GAN, Auto Encoders, VAE, Transformers, Diffusion

Models: VGG, ResNet, ConvNext, ViT, YOLO, U-Net, SAM, CLIP, GFPGAN, RealESRGAN, CodeFormer, Stable Diffusion

LLMs: GPT, Llama, Mistral, Med-PaLM

Machine Learning : Regression, Classification, Ensemble Learning (Random Forests, Adaboost, XGboost), Stacking, Blending

Frameworks: PyTorch, TensorFlow, Keras, Scikit-Learn, HuggingFace, LangChain

Model FineTuning: Transfer Learning, PEFT, LoRA, RAG

Model Optimization: Quantization, Graph Compilation

Model Deployment: Fast API, Streamlit, Docker, ONNX, OpenVino, Vertex AI, Kubeflow, Triton

Toolkits: OpenAI, Numpy, Pandas, Scipy, Opencv, Pillow, Plotly, matplotlib, MLFlow, DVC

Cloud Services: Azure, GCP

DevOps: Jira, Confluence, Azure DevOps, GitHub Actions, CI/CD, PyTest, SonarQube

EDUCATION

EPITA | Paris, France | 2019 – 2021 |
Masters in Data Science

Mahatma Gandhi University | Kerala, India | 2009 – 2013 |
Bachelors in Electrical Engineering

LANGUAGE

English : Fluent

French : Conversational