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✉ induraj@valopt.ai

Github

Induraj P.R.

+6 years of experience

Senior Data Scientist | Certified AWS Solution Architect

KEY COMPETENCIES
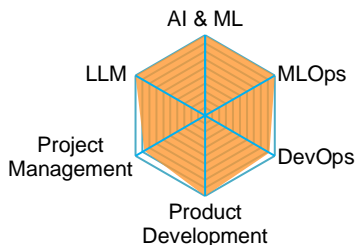
Development Tools

Python	●●●●●
Spark	●●●●●
SQL	●●●●●
NoSQL	●●●●●
Fast API	●●●●●
Django	●●●●●
GIT	●●●●●
GraphQL	●●●

AI/ML Frameworks & Tools

LangChain, OpenAI, n8n, CrewAI, AutoGen, RAG, TensorFlow, Keras, PyTorch, CUDA, OpenCV, NLP, YOLO, Bedrock, SageMaker, Azure ML, Scikit-learn, Statistics

Databases & Vector Stores

MongoDB, Milvus, Pinecone, Weavite, Qdrant, PostgreSQL

Cloud

AWS, Azure, GCP

MLOps & Visualization

MLflow, Weights & Biases, ClearML, vLLM, Git, CI/CD, Jenkins, Docker, Kubernetes, Airflow, Kafka, Elasticsearch, Kibana, Prometheus, Grafana, Tableau, QlikSense, Streamlit

PROFILE

Senior AI/ML Scientist specializing in LLM orchestration (RAG, multi-agent systems) and high-performance Computer Vision. I architect and scale robust, human-centered AI solutions by bridging the gap between innovative AI development and practical, scalable engineering.

EXPERIENCES

Senior Data Scientist, Valopt

Lead AI products design, development and implementation   Sept 2022 - Present, FR

- Designed, developed enterprise chatbot applications with Agentic AI framework.
- Developed end-to-end No-code AI platform that automates full ML lifecycle enabling business teams to productionize AI solutions without coding.
- Built real time ML pipelines in spark & python using first-party cookies to enable personalized recommendations.
- Created LTV (life time value) prediction models and Spark-based streaming pipelines for real-time user segmentation and retention.
- **Tools:** OpenAI, LangChain, Azure, AWS, Pyspark, Python, Rest Framework, MongoDB, Structured streaming

AI Engineer, Joovence

Build & deploy scalable AI Models for health care   May 2021 - Aug 2022, FR

- Built and deployed face anonymization algorithms, compliant with EU AI Act.
- Implemented models for image annotation to eliminate manual labeling.
- Developed predictive models to identify leads for cosmetic treatments.
- Enhanced model accuracy and fairness by fixing data quality and bias issues.
- **Algorithms**: CNN, GAN, Yolo, Auto Encoder, TSNE
- **Tools**: TensorFlow/Keras, Aws Sage maker, S3, OpenCV, Python, FastAI

Data Scientist, Sensego

AI marketing, Ad revenue and Click rate optimization   May 2020 - Nov 2020, FR

- Build predictive models for AI application (Adster) to manage ads.
- Segmented customers using clustering methods to target audiences.
- Created first touch attribution model, API endpoints and performed AB testing.
- Created client specific detailed metrics using Facebook business manager SDK
- **Algorithms** : Xgboost, Ensemble techniques, Unsupervised algorithms.
- **Tools**: Python, Sklearn, Pytest, FastAPI, Aws, Mongodb, Facebook business SDK

Instructor, Arbaminch University

Research Guidance & Academic mentorship   Oct 2012 - Sep 2018, ET

- Delivered courses & programming languages, mentored 1500+ students.
- Coordinated Govt sponsored research project as developer.
- Authored & peer reviewed academic research papers.

Languages

English	French	Tamil
★★★★★	★★★	★★★★★

RESEARCH PUBLICATIONS & LIBRARIES

- **Publication**: NLP based Fraud detection in internal audit documents.
- **Publication**: Multiprocessor & solid state scheduling optimization
- **PyPi - Deep Ensemble**: Wrapper for deep learning ensemble techniques.
- **PyPi - Data-cleaning:** Cleans dataset and return as cleaned data frame

EDUCATION

2018 - 2021   *Master in Big Data & Data Science,* **CY Tech- Ecole d'Ingénieurs**, Cergy, France
2010 - 2012   *Master in Embedded system design,* **Bharath university**, Chennai, India
2006 - 2010   *Bachelor in Electronics & communication system,* **Anna university**, Chennai, India