

ARUN C JOHN

Email: aruncjohn@gmail.com | [LinkedIn](#) | [Personal Website](#) | +1 587 984 1916

PROFESSIONAL SUMMARY

Seasoned AI/Machine Learning Specialist and Leader with a decade-long track record crafting and implementing intricate, cutting-edge machine learning solutions spanning across Python, Generative AI, NLP, computer vision, and deep learning. Proficient in harnessing the power of AWS/Azure Cloud Services and well-versed in AI Strategy, program management, research, MLOps.

TECHNICAL EXPERTISE

- Data Science & Machine Learning
- MLOps - AWS/Azure/Snowflake
- Program & Stakeholder Management
- NLP, LLMs, Generative AI
- AI Strategy & Consulting
- AI/ML Research & Product development

DOMAIN EXPERTISE

- FS & Insurance
- Oil & Gas
- Automotive

PROFESSIONAL EXPERIENCE

[Sr AI Solutions Engineer - ChainML Canada Inc. \(Feb 2024 - May 2024\)](#)

ChainML specializes in AI research and development in Blockchain & Web 3.0, focusing on the creation of AI agents. They offer Council Analytics, a Generative AI platform for conversational analytics via API, and are developing a Web3 AI Agent Protocol to enable decentralized, secure AI services.

- **Leading** the design and architecture of custom machine learning solutions, serving as the Principal Liaison between R&D, Engineering, and client teams. Successfully navigated the complexities of integrating ML/AI solutions to 2 client environments (PoC, Production use cases).
- **Developed & Deployed** Generative AILLM-powered agents using OpenAI, Claude integrated with in-house agentic framework, LangChain, LlamaIndex, pytorch, and scalable MLOps, building a conversational analytics engine.

[Principal Data Scientist - Accenture Strategy & Consulting \(Nov 2020 – Feb 2024\)](#)

- **Spearheaded** AI-driven solutions, streamlining decision-making and enhancing operational efficiency for businesses.
- **Strategic guidance and leadership:** Identified and evaluated opportunities for leveraging AI/ML, resulting in practical solutions that empowered Industry practitioners to adopt optimal solutions.
- **Built and managed** a high-performing team of 6+ Data Scientists and machine learning experts, ensuring delivery of high-impact ML/AI solutions.
- **Generative AI:** Pioneered the organizational drive towards rapid adoption of cutting-edge Generative AI/LLMs like Open AI GPT3/4, Anthropic Claude, Bedrock APIs, RAG systems and so on.
- **Data Science & MLOps:** Developed & productionalized multiple end to end AI driven solutions for Global Insurance Majors. techstack - Python,pytorch/Tensorflow, Classic & Gen AI, OCR & RAG and other tools such as Flask REST API & JavaScript-React JS UI, docker & Kubernetes in cloud (AWS) ecosystem, model tracking using MLFlow and so on. Ensured a 50% better fraud capture rate and multi fold reduction in processing times with \$2 million+ a year estimated savings .

[Computational Data Scientist - ExxonMobil \(Dec 2017 – Nov 2020\)](#)

- **Machine Learning & NLP:** Ideated, developed and deployed a comprehensive log text classification system using RNN - Bi-LSTMS for an Oil rig maintenance log classification, driving advancements in predictive maintenance strategies, saving \$1.5 million over three years.
- **Led** advanced reservoir data analytics and visualization strategies for unconventional projects.
- **IoT, Analytics & Visualization:** Spearheaded the development and execution of advanced reservoir data analytics and visualization strategies, Well scheduling analysis (IoT) for unconventional projects

[CAE Research Analyst - Mercedes Benz \(Jul 2013 – Dec 2017\)](#)

- Developed and implemented machine learning and statistical models for HVAC systems, Assisting HVAC system design, CFD/1D simulations, assisting design and fluid flow classifications.

Freelancing

Neptune AI – Technical Content Writer: Created content on machine learning, MLOps, and computer vision.

KNOWLEDGE PURVIEW

Machine learning, big data, Spark, ML architecture, Deep Learning, BERT, BART, OpenAI GPT, word embeddings, RNNs-based NLP algorithms, computer vision, OCR, classic ML models, MLOps tools, Python, Flask API, JavaScript, Node.js, React JS, cloud services, and more.

EDUCATION

M.Tech in Thermal & Fluids Engineering - National Institute of Technology, Karnataka, India (2014) - GPA: 7.4

B.Tech in Mechanical Engineering - Govt. Engineering College, Thrissur, India (2011) - GPA: 7.3

ARTICLES/PUBLICATIONS

- [Local Large Language Models \(LLMs\) for Natural Language Processing \(NLP\) Tasks](#)
- [Deploying Computer Vision Models: Tools & Best Practices](#)
- [Popular Optimization Algorithms in Machine Learning - A brief walkthrough](#)