

# GODCARES NDUBUISI

AI Engineer

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## PROFESSIONAL SUMMARY

AI Engineer with 2+ years of experience building production-grade machine learning systems across reinforcement learning, continual learning, and generative AI domains. Experienced in extending self-adapting language models (SEAL), designing RL-based optimization systems, and deploying scalable ML pipelines across industrial and financial domains.

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, Java

**ML/AI Frameworks:** PyTorch, TensorFlow, Keras, Scikit-learn, Stable-Baselines3, Gym

**Machine Learning & AI:** Reinforcement Learning, Classical ML, Time Series Analysis, Continual & Self-Adaptive Learning, Deep Learning, Computer Vision, EfficientNet, LSTM, BERT, Transformers, Transfer Learning

**LLM & Generative AI / Retrieval:** LangChain, FAISS, RAG pipelines, Semantic search, Vector search, Prompt engineering, Cohere, Gemini

**Data Engineering & Analytics:** Feature Engineering, Exploratory Data Analysis, Data Preprocessing, Simulation Data Analysis, Statistical Modeling, Dashboards

**MLOps & Deployment:** MLflow, DVC, Model deployment, Monitoring, CI/CD

**Cloud & DevOps:** Google Cloud Platform, Microsoft Azure, Firebase, Docker, Git, GitHub

## WORK EXPERIENCE

### Long Term Industrial Development

Mitaka, Tokyo, Japan (Remote)

*AI Engineer (Intern)*

Oct 2025 - Jan 2026

- Engineered a production optimization system for a pharmaceutical client, leveraging Reinforcement Learning to schedule 20 distinct medicines across 5 sequential processing stages with strict mathematical precision.
- Extended the SEAL architecture to engineer a self-adapting NLP framework, introducing dynamic context-awareness mechanisms that successfully mitigate catastrophic forgetting during continual learning streams.
- Designed a scalable loan scoring architecture that streamlined applicant assessment, integrating predictive modeling with a custom UI and automated CI/CD pipelines for seamless client delivery.

### Guruji AIR International

Pune, India

*Junior Data Scientist (Intern)*

Jan 2025 - Jun 2025

- Architected scalable ETL pipelines using BeautifulSoup and Scrapy to aggregate and curate handwritten manuscript datasets.
- Developed a real-time, multilingual plant identification system utilizing TensorFlow, EfficientNet, and WebRTC for live camera detection.
- Engineered a multimodal AI assistant (Cohere LLM, FAISS) for PDF analysis, enhancing functionality via Gemini API integration.
- Authored technical documentation on Agentic AI and governance frameworks to drive internal R&D initiatives.

### Centre for Development of Advanced Computing (C-DAC)

Pune, India (Remote)

*Project Intern*

Jul 2024 - Dec 2024

- Built a real-time ransomware detection engine leveraging Random Forest, SVM, and Neural Networks for high-accuracy threat classification.
- Devised low-latency detection strategies to ensure minimal system disruption during active monitoring.

## PROJECTS AND RESEARCH

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- Generative AI-Driven Predictive Maintenance (Industry 4.0)** Oct 2024
- Developed a predictive maintenance model using Wasserstein Conditional GANs, reducing equipment downtime via real-time failure detection (85% accuracy).
- Fusion of Deep Architectures for Intrusion Detection** Jun 2024
- Built a hybrid deep learning intrusion detection system achieving 95%+ anomaly detection accuracy on network traffic data.
- ReinforceTrader: RL-Based Stock Trading with Sentiment Analysis** May 2024
- Designed a SARSA-based reinforcement learning trading agent with sentiment features, achieving 80.8% cumulative return over 3 years in backtesting against SPY.

## PUBLICATIONS

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- Integration of SARSA-Based Automated Trading Algorithms with Blockchain Technology for Asset Tracking and Management** Dec 2025
- Integration of SARSA-Based Automated Trading Algorithms with Blockchain Technology for Asset Tracking and Management | IEEE Conference Publication | IEEE Xplore
- Fusion of Deep Architectures in Intent-Driven Networks for Intrusion Detection** Apr 2025
- Digital Defence: Harnessing the Power of Artificial Intelligence for Cybersecurity and Digital Forensics | Taylor and Francis
- Exploring Customer Segmentation in the Context of Market Analysis**, IEEE Xplore Mar 2024
- Exploring Customer Segmentation in the Context of Market Analysis | IEEE Conference Publication | IEEE Xplore

## EDUCATION

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- Symbiosis Institute of Technology, Pune, India** Jul 2021 - May 2025
- Bachelor of Technology in Artificial Intelligence and Machine Learning**

## AWARDS

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- International Student Merit Scholarship**, Symbiosis Institute of Technology Mar 2024
- Awarded for outstanding academic excellence and performance as an international student.

## VOLUNTEER AND TRAINING

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- Gamechanger Community** Berlin, Germany
- Business Development Trainee* Mar 2021 - Apr 2021
- Applied business strategy and leadership training to support product development, aligning technical execution with customer insights. to build sustainable business value.