Pahirathan Nithilan

AI/ML Engineer

✉ nithilan32@gmail.com 📞 +94 768078742 🔗 Nithilan ⚫ Pahinithi

in Nithilan 📍 Colombo

👤 PROFILE

AI/ML Engineer skilled in developing and deploying scalable AI applications across Machine Learning, Deep Learning, Generative AI, LLM, Computer Vision, and NLP. Passionate about applying data-driven methods to solve real-world problems and committed to continuous learning and innovation. Enthusiastic about AI and data science.

🎓 EDUCATION

Bachelor of Business Science
University of Moratuwa ⬈
2021 – 2025

Full-Stack Web Development Diploma (FSWD)
Uki Coding School ⬈
2019 – 2020

💼 PROFESSIONAL EXPERIENCE

AI/ML Engineer (Intern)
M Data Zone SA Pvt (Ltd)
01/2025 – present

I am working on **MedirAI**, an AI project for early skin cancer detection, contributing to the development and deployment of 8+ AI models and 3+ production deployments. Key contributions include:

- AI Model Development: Developed and optimized 8+ AI models, ensuring high performance and scalability.
- Model Testing: Conducted model testing using test cases to validate model performance and accuracy.
- FastAPI for API Development: Built efficient REST APIs using FastAPI to integrate AI models and support seamless communication with other systems.
- Model Hosting & Deployment: Deployed models using Azure services, ensuring smooth integration with production environments.
- PostgreSQL Database Integration: Managed and optimized data storage and retrieval using PostgreSQL for handling structured datasets.
- Model Evaluation: Conducted thorough evaluations and fine-tuning of models to achieve high accuracy.
- Dataset Management: Uploaded and organized datasets into Azure Containers for scalable and secure storage.
- CLI Development: Developed command-line interfaces (CLI) for easy access and interaction with models and services.
- iOS App Development: Contributed to the development and integration of AI models in an iOS app.
- Web Scraping AI Bot: Built and deployed a web scraping AI bot to collect relevant data for model training and real-time insights.
- CI/CD Pipeline: Contributed to the design and maintenance of the CI/CD pipeline for streamlined development and deployment processes.

🧠 SKILLS

Technical Skills
- Programming: Python, Node.js
- Machine Learning & Deep Learning Frameworks: TensorFlow, Keras, Scikit-learn, PyTorch, XGBoost, CNN, RNN, LSTM, GANs
- Natural Language Processing (NLP): SpaCy, NLTK, BERT, GPT, TextBlob, Hugging Face Transformers
- Generative AI: Stable Diffusion, DALL-E , GPT, DialoGPT, T5 , StyleGAN, BigGAN
- Computer Vision: OpenCV, YOLO, Mask R-CNN, VGG,
- Data Science & Analytics: Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau
- Databases: MySQL, PostgreSQL, MongoDB, SQLite, Supabase, FAISS
- Cloud Platforms: Microsoft Azure, AWS, GCP, Azure Blob Storage, Azure Container Registry, Docker, Podman, Portainer, Virtual Machines
- Model Development & Deployment: Flask, FastAPI, Model Serving with Containers (Docker, Podman), Cloud Integration (Azure), API Deployment & Integration
- Web Scraping
- CI/CD (basic)
- Mobile App Development: Swift (iOS) (basic)
- Web Development: (basic)

Soft Skills
- Teamwork and Collaboration
- Effective Communication
- Problem-solving and Critical Thinking
- Adaptability
- Time Management
- Continuous Learning Mindset

Maching Learning Engineer (Intern)
EPR GROUPERS
08/2024 – 01/2025
As an intern, I built machine learning pipelines for image classification, object detection, and pipe leakage detection using computer vision, and supported a retail analytics project by cleaning and analyzing business data, creating dashboards, and participating in client sessions.

Co-Founder & CEO
Workwith.lk
12/2024 – present
Currently developing an AI-powered platform that connects businesses with skilled professionals to deliver efficient and reliable workforce solutions.

📁 PROJECTS

My Portfolio Projects
I develop projects across Machine Learning, Deep Learning, NLP, Large Language Models, Generative AI, Computer Vision, and additional areas. See my portfolio ⧉ and GitHub ⧉ for details.

🌐 LANGUAGES

Tamil - Native

English - Professional Working Proficiency

🏠 EXTRACURRICULAR ACTIVITIES

Clubs
- Member of AIESEC University of Moratuwa
- Member of Hiking Club University of Moratuwa
- Member of BPM Club University of Moratuwa
- Member of Yarl IT Hub Jaffna
- Member of AI Community Sri Lanka

⚒ REFERENCES

Dr. Amali Wijekoon, *Senior Lecturer,*
Faculty of Business - University of Moratuwa
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Dr.(Ms) Harishani Liyanage, *Senior Lecturer,*
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