Phoo Pyae Pyae Linn (Lily)

Senior Data Scientist

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United States

SUMMARY

Senior Data Scientist in developing data-driven applications, focusing on regression analysis, object detection, semantic segmentation, and audio analysis. Skilled in crafting models using both Deep Learning and Machine Learning algorithms within the Python ecosystem. I hold a strong conviction that dedicating time for research within AI projects is essential for achieving superior results.

SKILLS

Deep Learning
Machine Learning Algorithms
Statistical Analysis & Mathematical Modeling
Feature Engineering

Instance/Semantic Segmentation Object Detection Image Classification Regression Models

TOOLS

Python SQL AWS Huawei Cloud Pytorch
Tensorflow and Keras
Scikit-learn
Pandas
Numpy
Matplotlib and Seaborn

Weight and Biases MLFlow

RESEARCH INTERESTS

Continual Learning, Meta-Learning, Reinforcement Learning, Machine Learning, Deep Learning

PROFESSIONAL EXPERIENCE

PeafowlAI July 2024 - Present
Researcher United States

• Contribute to the research on low-resource languages such as evaluation metrics, and benchmarking datasets for low-resource languages.

Carro (Trusty Cars Pte Ltd) Senior Data Scientist I

Sept 2021 - July 2024 Singapore

- Showroom Car Image Generation Project
 - Initiated and led the project to automate car imagery for online showrooms, significantly reducing manual workload by 60%.
 - Deployed models including U2Net and LAMA inpainting in Pytorch, boosting MAP by 79%.
- Car Damage Detection Project
 - Gained extensive experience by utilizing MaskRCNN with ResNet101, YOLOv8, Transformer, and ViT for car damage detection and segmentation.
- Car Audio Classification Model
 - Developed a ResNet50-based model for car audio classification, achieving 95% accuracy on a comprehensive test set, and enhancing vehicle diagnostic.

- · Car Price Prediction Model
 - Created a statistical model to predict car sale prices across multiple countries, from data preparation to API deployment, providing valuable pricing insights for Carro's market.
- Directed a Computer Vision team, expertly managing projects and personnel to drive innovation and achieve technical milestones.

Huawei Cloud APAC

Feb 2020 - Sept 2021 Yangon, Myanmar

Cloud and Al Solution Architect

- Engineered and deployed tailored AI/ML solutions addressing specific business needs.
- Managed end-to-end machine learning lifecycle, from data preparation to model training and deployment.
- Led the development of Al diagnostics for Covid-19 in Asia-Pacific, significantly aiding healthcare professionals.
- Took charge of the global implementation of OCR, eKYC, and facial recognition technologies, enhancing identity verification processes.

Codigo

June 2018 - Oct 2019 Yangon, Myanmar

Machine Learning Researcher

- Developed a comprehensive machine learning pipeline for a Face Anti-Spoofing system, encompassing all stages from data collection to performance evaluation.
- Contributed to the publication of a collaborative research paper, highlighting key findings and methodologies.
- Achieved outstanding model performance with losses of 0.102 on the NUAA dataset, 0.14 on a customcollected dataset, and 0.2 on the Replay-Attack dataset, demonstrating the system's robustness against various spoofing attacks.

EDUCATION

Master of Computer Science

2018-2019

Majors: Software Engineering, Research in Al University of Information Technology, Yangon

Publication - P. P. Linn and E. C. Htoon, "Face Anti-spoofing using Eyes Movement and CNN-based Liveness Detection," 2019 International Conference on Advanced Information Technologies (ICAIT), Yangon, Myanmar, 2019, pp. 149-154, doi: 10.1109/AITC.2019.8921091.

Bachelor of Computer Science

2013-2017

Majors: Software Engineering University of Information Technology, Yangon

CERTIFICATIONS

AWS Certified Machine Learning - Specialty

PERSONAL RESEARCH

Ongoing research - Continual Learning

Motivation - To address the challenges of neural networks in continual learning settings and to prevent the catastrophic forgetting with a specific interest in balancing stability and plasticity.

Team - Collaboration with a Ph.D. researcher from Nanyang Technological University, Singapore