

VAUWEZ SAM EL FAREEZ

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EDUCATION

Sivas Cumhuriyet University

MSc Artificial Intelligence and Data Science *GPA: 4.0*

Received Türkiye Scholarships (ASEAN Joint Scholarship Program); completed a one-year Turkish preparatory program (Oct 2024 to Jun 2025) with a C1 certificate.

Sivas, Türkiye

Sep 2025 - Jan 2028 (expected)

Mulawarman University

BCS Informatics *GPA: 3.8*

Samarinda, Indonesia

Aug 2020 - Nov 2023

EXPERIENCE

Mulawarman University, Prof. Anindita Septiarini's group

Research Collaborator

Samarinda, Indonesia

Mar 2024 - Present

- Designed and ran experiments for two computer-vision studies (ergonomic sitting posture, mangrove leaf species); built data collection setups, synthetic data pipelines, and evaluation protocols.
- Compared CNNs against classical ML (XGBoost/MLP/SVM) on 8,000+ images with Bayesian hyperparameter search, selecting models on accuracy *versus* inference cost rather than accuracy alone; improved domain robustness with synthetic augmentation (SDXL, Flux.1) and pose/keypoint pipelines.
- Ran literature reviews of 35+ papers per project and co-drafted journal manuscripts, a book chapter, and a monograph with senior researchers.

CERN — ALICE Experiment, EPN Farm

Summer Student, DevOps Engineer

Geneva, Switzerland

Jun 2026 - Aug 2026

- Migrated configuration management of the ALICE EPN farm (350 nodes, 2,800 GPUs, ~45 PFLOPs) from manual SSH runs to a GitOps pipeline triggered only by a Git push.
- Evaluated five open-source automation platforms on licensing, access control, and API; selected and deployed AWX with version-controlled configuration and automated CI image builds.
- Audited ~80 production roles for convergence and wrote a roadmap to make farm configuration reversible from Git history alone as groundwork for LHC Run 4.

PUBLICATIONS

Detection of Ergonomic Sitting Postures in Office Environments *Journal of Image and Graphics*, 2025
Lightweight pose-based classification (MoveNet keypoints + classical ML): 94.6% accuracy at far lower compute than end-to-end CNN baselines, validated across multi-camera views and 29 participants. doi: 10.18178/joig.13.6.686-701.

Robust Mangrove Leaf Species Classification with Source-only Learning *JOIV: Int. J. Informatics Visualization* (under revision)

Domain-adaptation framework using structure-preserving synthetic data to classify species with no labelled field data; macro-F1 0.947 in strict studio-to-field transfer.

Adapting Pre-Trained Music Source Separation Models for Traditional Turkish Instrument Pedagogy

10th International Student Science Congress, Erciyes University, Kayseri, Dec 2026 — abstract accepted, full paper submitted. Fine-tuned HTDemucs where no multitrack recordings exist by rendering 90 SymbTr scores into bağlama, ud, ney, kanun, and bendir stems. The bağlama output was silent before fine-tuning (0.00 dB), while four outputs reached 16.23 to 21.21 dB nSDR afterwards on synthetic test pieces.

Expert Systems and Applications

book chapter, *Advanced AI Architectures for Engineering Innovation*
Invited chapter co-authored with MSc supervisor. Eds. K. Adem & E. Delibaş, Livre de Lyon, 2026 (e-ISBN 979-10-7023-069-5).

Kecerdasan Buatan untuk Deteksi Penyakit Batang Kelapa Sawit

monograph, Alinea Edumedia, 2025
Artificial Intelligence for Oil Palm Stem Disease Detection — co-authored monograph (4 authors, x+106 pp.) on applied computer vision for agricultural disease screening.

PROJECTS

Few-shot Indonesian Sign Language Recognition

Applied pretrained SL-GCN encoders with Prototypical Networks on WL-BISINDO for few-shot Indonesian sign language recognition. An encoder pretrained on Turkish Sign Language (AUTSL) reached 98.17% 5-way 5-shot accuracy, while Chinese and Argentinian encoders gained up to 23% after fine-tuning. Tracked experiments in Weights & Biases.

github.com/zeerafle/fsl-bisindo

SKILLS

ML/DL:	PyTorch, TensorFlow, Scikit-Learn, XGBoost, OpenCV, NumPy/Pandas
Infrastructure:	Linux, Docker, Ansible/AWX, Kubernetes, GitLab CI/CD, OpenStack, GCP, Azure
Research workflow:	Weights & Biases, remote GPU computing (SSH), L ^A T _E X, FFmpeg/libavcodec
Languages:	Indonesian (native), English (professional), Turkish (C1)