FAHAD WAHAB

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SKILLS

- **Deep Learning Models & Architectures**: YOLO, MobileNet, ResNet, RCNN, Transformers, CNNs, RNNs, GANs, Object Detection, Face Detection, Model Optimization, Transfer Learning, Neural Network, Back Propagation, Multi-Task Leaning
- **Tools & Technologies**: TensorFlow, Keras, PyTorch, NumPy, OpenCV, scikit-learn, Python, C++, VS Code
- **Model Development & Optimization**: Model Training, Data Preprocessing, Feature Selection, Pattern Recognition, Hyperparameter Tuning, Mathematical Optimization, Decision-Making, Real-Time Inference, Version Control

EDUCATION

MASTERS IN E-MOBILITÄT, (EXPECTED DEC 2025)

Friedrich-Alexander-Universität – Erlangen-Nürnberg, Germany
Specialization: Artificial Intelligence and Autonomous Driving

BACHELOR OF MECHANICAL ENGINEERING, 2018

National University of Science and Technology – Pakistan
Specialization: Mechanical Engineering

PROJECT

MASTER'S PROJECT
REAL TIME INFANT SLEEP MONITORING SYSTEM, NOVEMBER 2024 TO APRIL 2025

- Developed a real time system to classify infant sleep states (asleep, sleepy, awake) using eye and mouth activity.
- Trained two MobileNet models for open/closed state detection, improved accuracy via transfer learning and regularization.
- Applied MTCNN and dlib for robust facial landmarks detection, integrated blink and yawn analysis for enhanced prediction.
- Overcame limited infant data by integrating adult datasets, deploying solutions with TensorFlow and OpenCV for seamless real time inference.

PROFESSIONAL EXPERIENCE

CORPS OF ELECTRICAL AND MECHANICAL ENGINEERS, PAKISTAN
MAINTENANCE ENGINEER, NOVEMBER 2018 TO MAY 2022

- Managed a team of 150 personnel, improving vehicle overhaul efficiency by 25%, reducing operational costs by 15%, and minimizing waste by 20%.
- Analyzed ECU performance data, identified patterns, and applied corrective measures to ensure system reliability.
- Conducted training for 50+ team members on hybrid technologies and modern automotive systems, fostering continuous skill development.
- Prepared and presented technical reports to senior stakeholders, promoting data-driven decision-making processes.

CERTIFICATIONS

- **Deep Learning Specialization (DeepLearning.AI, Coursera), verified via Credly**
  Credential: https://www.credly.com/badges/bdf25bd7-35c8-44c8-9a0b-b4fa9c46cb7e/public_url
  - Structuring Machine Learning Projects
  - Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
  - Neural Networks and Deep Learning
  - Convolutional Neural Networks
  - Sequence Models
- **E-Fellows Scholarship Holder**

ADDITIONAL INFORMATION

Languages: English (C1), German (B1), Urdu (Native), Pushto (Mother Tongue)
Others: Valid German Driving License | Interests: Photography, Automotive Engineering, Driving Dynamics, Machine Learning