

# Ahmad Nayfeh

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## CAREER OBJECTIVE

Fresh Electrical Engineering graduate with expertise in AI and ML, eager to apply innovative solutions to complex engineering challenges and drive technological advancements

## EDUCATION

**Master of Science, Electrical Engineering** **Aug 2024 – Present**  
*King Fahd University of Petroleum and Minerals* *Dhahran, KSA*

- Research Interests: Machine Learning, Computer Vision, Signal Processing, Compressive Sensing

**Bachelor of Science, Electrical Engineering** **Sep 2018 – Jan 2024**  
*King Fahd University of Petroleum and Minerals* *Dhahran, KSA*

- Second Honor
- Relevant Courses: Electric Energy Engineering | Control Engineering | Electronics | Introduction to Micro and Nano-Electronics | Applied Digital Signal Processing | Digital Image Processing | Introduction to AI and ML

## EXPERIENCE

**Summer Undergraduate Research** **Jun 2023 – Aug 2023**  
*SDAIA-KFUPM Joint Research Center for Artificial Intelligence* *Dhahran, KSA*

- Developed a two-stage YOLOv8 model for waste management in cognitive cities
- Applied advanced image processing and deep learning techniques
- Improved system efficiency with 2% enhancement in F1 score

**Undergraduate Research** **Jan 2023 – May 2023**  
*SDAIA-KFUPM Joint Research Center for Artificial Intelligence* *Dhahran, KSA*

- Developed forecasting models for wind turbine power generation
- LSTM networks and hybrid Random Forest Regression-LSTM
- Achieved 19.73% reduction in Mean Absolute Error (MAE)

## PROJECTS

**ACT28 AI Hackathon: Gamified AI Recycling Bin for Efficient Waste Segregation** **May 2024 – Jun 2024**

- Led team development of AI-powered garbage classification system
- Achieved 95% accuracy in waste classification
- Ranked among top 3 teams in GCC countries and Turkey

**AI-Powered Real-Time Road Crack Detection System** **Aug 2023 – Dec 2023**

- Led multi-disciplinary team for road crack detection and classification
- Integrated RGBD cameras, sensor technologies, and deep learning
- Achieved 74% detection accuracy for urban safety

## CERTIFICATES

- Google Project Management Professional Certificate, Coursera, July 2024
- Renewable Energy Technology Fundamentals, Coursera, Jun 2024
- Google Data Analytics Professional Certificate, Coursera, Feb 2024

## SKILLS

**Technical Skills:** MATLAB, AutoCAD, Python, Machine Learning, Computer Vision, Data Visualization, Data Analysis  
**Languages:** Arabic (Native), English (Proficient)