Malaak Kasasbeh

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PERSONAL PROFILE

A highly motivated and innovative Intelligent Systems Engineer with a strong background in AI, Machine Learning, and Natural Language Processing. Passionate about leveraging technology to develop smart solutions that enhance accessibility, education, and sustainability. Experienced in full-stack development and robotics, with expertise in Python, Flask, and embedded systems. Adept at problem-solving and critical thinking, with a keen interest in data analysis, automation, and computer vision. Strong communication and leadership skills, with a proven record of collaboration on interdisciplinary projects. Actively engaged in professional communities and conferences to stay updated on industry advancements. Dedicated to continuous learning and self-improvement. Strong advocate for the ethical application of AI.

SUMMARY

An innovative Intelligent Systems Engineer with a deep understanding of Artificial Intelligence (AI), Machine Learning (ML), and Natural Language Processing (NLP). Experienced in designing and implementing AI-driven solutions that enhance accessibility, education, and sustainability. Skilled in full-stack development, with proficiency in Python, Flask, and modern web technologies. Committed to solving real-world challenges through technology while promoting efficiency, sustainability, and inclusivity.

WORK EXPERIENCE

AI Engineer Trainee
Mutah University E-Learning Center
June 2024 - October 2024

- Developed and optimized AI-powered educational systems, including an advanced exam evaluation system.
- Gained hands-on experience in deep learning and NLP applications for education.

AI Content Specialist
AI Company
July 2024 - Present

- Created specialized content on AI technologies, including articles, reports, and case studies.
- Monitored and analyzed content performance to align with company strategies and enhance AI visibility.

EDUCATION

Bachelor of Intelligent Systems Engineering

Tafila Technical University

- Focus on AI, ML, and intelligent systems.
- Engaged in coursework and projects related to NLP, AI solutions, and systems engineering.

PROJECTS

EyeNova: AI-Powered Accessibility Solutions

- Developed three AI-powered assistive devices for individuals with disabilities using IoT and wearable tech:
  - **Smart Glass:** Converts printed text into audio using OCR and TTS.
  - **Traffic Light Detector:** Identifies traffic light colors in real time using ESP32-CAM and provides auditory feedback.
  - **Smart Glove:** Translates gestures into audible speech using flex sensors and Arduino.
- Utilized Raspberry Pi, ESP32-CAM, Arduino Uno, Tesseract OCR, and Edge Impulse.

AI-Powered Exam Evaluation System

- Built an AI-driven NLP system for automated exam grading and contextual feedback.

DivainSync Stress Management Program

- Developed an AI-based app for stress management with personalized break suggestions and mindfulness exercises.

Ecovista Smart Home System

- Integrated AI for optimizing energy usage, climate control, and appliance management in smart homes.

Mab-AI Virtual Assistant

- Designed an AI-powered virtual assistant for automation and task management.

TECHNICAL SKILLS

- **Artificial Intelligence & Machine Learning:** Supervised Learning, Deep Learning, NLP, Reinforcement Learning
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn
- **Web Development:** Flask, HTML, CSS, JavaScript, RESTful APIs
- **Robotics & Automation:** Arduino, Raspberry Pi, IoT, Embedded Systems
- **Computer Vision:** OpenCV, TensorFlow, Image Processing
- **Natural Language Processing:** Text Classification, Sentiment Analysis, Chatbots
- **Cloud & Deployment:** AWS, Google Cloud, Docker, CI/CD
- **Version Control:** Git, GitHub, GitLab
- **Project Management:** Agile, Scrum, Jira

- **Cybersecurity & Networking:** Basic Security Concepts, Cisco Networking
- **Soft Skills:** Leadership, Communication, Teamwork, Problem-Solving

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LANGUAGES

- **English:** Fluent
- **Arabic:** Fluent

CERTIFICATIONS

- **Supervised Machine Learning**, Stanford University
- **Networking**, Cisco
- **Python for Everybody**, University of Michigan
- **Web Development** *(Platform/Provider, if applicable)*

AWARDS & ACTIVITIES

- **2nd Place**, "Technological Solutions for Women to Balance Work and Life" competition for DivainSync project (competing against 12 universities).
- **Chairperson**, Women in Engineering Affinity Group, IEEE SCINCE
- **Public Relations Manager**, IEEE Robotics and Automation Society
- **Webmaster & Active Member**, IEEE Institution (managed website, organized workshops and events).
- **Participation in International Conferences** focused on AI, robotics, and engineering innovation.

REFERENCES

Available upon request.