Rehab Abdulrahman Al-Saidi

AI & Computer Vision Engineer | AI Researcher | AI Manager

(+962) 775977269 | Rehab AlSaidi| rehabalsaeidi2@gmail.com| GitHub| IEEE Xplore

SUMMARY

AI engineer and researcher with hands-on experience in machine learning and computer vision. Skilled in developing and deploying models for real-world applications, currently leading AI initiatives as an AI Manager, focusing on team training, digital transformation, and global AI enablement.

EDUCATION

Bachelor's Degree in Computer Science and Artificial Intelligence

Middle East University| Amman, Jordan| February 2021- July 2024
GPA: 3.53/4.

SKILLS

Programming Languages: Python, C++, SQL, C#
Web Development: ASP.NET Core MVC, HTML, CSS, FastAPI, Flask
AI/ML Frameworks & Tools: TensorFlow, PyTorch, ML.NET, Orange Data Mining, Blue Prism
Cloud & Edge Platforms: Microsoft Azure, Google Cloud, Lumeo Cloud, NVIDIA JetPack SDK (Jetson Nano)
DevOps & Collaboration: Docker, Git, GitHub, Jira
Data Visualization & Analytics: Power BI (Dashboards, Data Modeling, DAX, Power Query)
Operating Systems: Linux

EXPERIENCE

AI Manager
51Talk Company | Amman, Jordan | May 2025 – Present

- Led the digital transformation strategy across departments, integrating AI technologies to enhance efficiency and innovation.
- Trained local and global teams on AI concepts, tools, and best practices through curated learning batches and live demo sessions.
- Oversaw the deployment of AI solutions aligned with organizational goals, improving both internal workflows and customer-facing systems.

Computer Vision Engineer
OPTRIMENT Company | Dubai, UAE | Aug 2024 – May 2025

- Designed end-to-end AI pipelines for data collection, annotation, training, and deployment.
- Trained and fine-tuned real-time object detection, tracking, and transformer-based models.
- Deployed AI models on NVIDIA Jetson devices using DeepStream SDK, with TensorRT for low-latency inference.
- Built real-time inference pipelines for high-performance edge applications.
- Containerized deployments using Docker for seamless edge integration.
- Delivered end-to-end AI projects for clients in Saudi Arabia and the UAE.
- Developed backend services and front-end interfaces integrated with deployed AI models.

Data Engineer Internship
AI Elements Company | Amman, Jordan | Feb 2024 – May 2024

- Engineered data pipelines and developed ETL processes to transform raw data into actionable insights for business intelligence initiatives.
- Created interactive dashboards that enable real-time decision-making.

AI/DS & ASP.NET Developer Internship
Tech Process Solution Company | Amman, Jordan | Aug 2023 – Oct 2023

- Developed web applications using ASP.NET Core.
- Implemented machine learning algorithms with ML.NET to provide predictive analytics and data-driven insights within web applications.

PROJECTS

1. **Brain Tumor Detection and Classification using Computer Vision (DBV) |**GitHub
Developed models using YOLOv11 for detection and ResNet50 for classification. Integrated these models into a real-time system deployed using Flask.

2. **Defect Bridge Detection (CBV) |**GitHub
Implemented CV techniques, including the YOLOv9-c detection model, for defect detection in bridge structures.

3. **Power BI Dashboards for Churn Analysis & HR Analytics |**GitHub
Developed Power BI dashboards for churn and HR analytics, including data preprocessing and complex DAX queries for advanced metrics.

4. **Liver Tumor Detection Role of Nanotechnology |**GitHub
Utilized YOLOv8 for liver tumor detection, extracted tumor features and applied segmentation techniques. These features were then used to design custom nanoparticles for targeted treatment.

5. **Library Web App with Recommendations |**GitHub
Contributed to the development of a library web app that provides book recommendations based on user preferences.

6. **Heart Disease Risk Analysis |**GitHub
Explored the relationship between risk factors and heart disease using data mining techniques.

7. **Chat GPT Analysis |**GitHub
Employed ChatGPT to optimize algorithms for enhanced performance in Arabic and English contexts.

8. **PromptCraft AI – Elevate Your AI Interactions |** GitHub
Built a bilingual Flask tool with LangChain and Google Gemini, using three custom frameworks to optimize English and Arabic prompts.

Awards and Achievements

1st Place, Computer Vision Track – *Artificial Intelligence Olympiad 2024*
Developed City Bridge Vision (CBV) project, Implemented YOLOv9-c detection model, for defect detection in bridge structures.

Research Papers

1. **Enhancing Brain Tumor Detection with YOLOv11: An Innovative Deep Learning Approach in Medical Imaging**
Published in IEEE ICCIAA 2025 |Link
Introduced YOLOv11 for brain tumor detection in MRI scans, achieving high mAP50 (0.993) and fast detection, improving diagnostic efficiency.

2. **Liver Tumor Detection using YOLOv8: Size-Adaptive Nanoparticle Design Based on Tumor Dimensions**
Published in IEEE ICCIAA 2025 |Link
Used YOLOv8 to detect liver tumors and extract features for designing size-adaptive nanoparticles, enhancing both diagnosis and treatment.

LANGUAGES

- English: Intermediate.
- Arabic: Native.