Hanan Aref

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Aspiring Machine Learning researcher with a strong background in AI, data science, and full-stack development. Passionate about AI applications in medicine and healthcare, aiming to advance research in deep learning and computational neuroscience.

Education

Lebanese International University , Khiara, Lebanon	Sep 2024 – present
Masters of Science in Computer and Communication Engineering	

Lebanese University Zahle, Lebanon	Jan 2021 – present
BS in Life and Earth Sciences	
Honors	

Lebanese International University , Khiara, Lebanon	Jan 2021 – Aug 2025
BS in Computer and Communication Engineering	
Honors, GPA= 3.3	
Relevant Courses: Web and App Development, Machine Learning	

Professional/Project Experience

Digital Circle, Zahle, Lebanon   Dec 2024 – Feb 2025
Software Engineer Intern - ERPNext/HRMS Development
- Working with Frappe framework, setting up ERPNext v14, and implementing HR modules.
- Documenting UML diagrams and system architecture.

Freelance Web Developer | Self-Employed   2021 - Present
- Developed multiple full-stack applications, including blogs and business automation tools.

Forward MENA   Sep 2024 - Feb 2025
Onramp Software Bootcamp Participant
- Built a collaborative team HR project, focusing on scalable software solutions.

Zaka AI, Beirut, Lebanon   Dec 2022 – present
Student Ambassador
- Positions should be listed in reverse chronological order.
- Present and illustrate your achievements, then describe how you attained them.

Leadership and Volunteering

- **IEEE Lebanon - Board Member (Treasurer & Logistics Lead)**
- **Google Developer Student Clubs (GDSC) Lead** - Organized AI and ML workshops.
- **Hult Prize Campus Director** - Led startup competitions at Lebanese University and LIU.
- **INJAZ Mentor** - Guided students in entrepreneurship and technology programs.
- **Zaka AI Ambassador** - Conducted AI-related workshops, including 'How to Become an AI Engineer'.
- **JCI Lebanon Member** - Worked on environmental projects focused on e-waste recycling.
- **We FALSE Mental Health Club Member** - Organized mental health awareness sessions.

Technical Skills

- **Programming tools and languages:** Python (NumPy, Pandas, TensorFlow, PyTorch, Scikit-learn, *,SciPy, NLTK, BeautifulSoup, Matplotlib, Statsmodels, Jupyter Notebook*), SQL, JavaScript, C++, R, Java,AWS,MongoDB,PostgreSQL,Linux

- **Machine Learning & AI:** Supervised/Unsupervised Learning, Deep Learning, Neural Networks, NLP, Reinforcement Learning, Computer Vision, *Statistical Analysis, Linear/Logistic Regression, Clustering, Graph Theory, Regularisations*
- **Data Engineering:** PostgreSQL, Docker, Prisma
- **Cloud & DevOps:** AWS (S3, Lambda, EC2), VMware, Linux (Ubuntu), Frappe/ERPNext
- **Web Development:** MERN Stack (MongoDB, Express, React, Node.js), Next.js, REST APIs

Research and Projects

AI-Powered Healthcare Diagnostic Tool (2024 - Present)
- Developing an early disease detection system using deep learning models.
- Implementing feature engineering and medical dataset processing.

Hkini AI - AI-Powered Educational Platform (Senior Project, 2023)
- Designed a platform for AI-driven tutoring, earning **3rd place at Engineering Day**.
- Developed NLP-based chatbot for personalized learning.

HR Management System (2024)
- Built a dashboard, org chart, and calendar module using Next.js, PostgreSQL, Prisma, and REST APIs.

Task Management App (MERN Stack, 2024)
- Created a task manager for team collaboration, utilizing MongoDB and React.

E-Waste Management Solution - Hult Prize Winner (2023)
Developed a business model integrating AI and IoT for sustainable e-waste recycling

Awards and Achievments

- **Hult Prize On-Campus Winner (2023)** - Sustainable e-waste management solution.
- **3rd Place - Engineering Day, LIU (2023)** - AI-powered education project.
- **Honors List - LIU Engineering School (2023)**

Publications & Conferences

- Attended multiple IVPNR webinars on AI in neuroscience.
- Researching AI applications in mental health and neurodegenerative disease diagnostics.

Certifications

- **Zaka AI Certification Program - Machine Learning Specialization** (2024)
- **AWS Machine Learning Speciality Training - Nammi Skills** (2024)
- **Data Analyst Certification - Simplilearn (Masters Program)** (2024)
- **Introduction to Cybersecurity Bootcamp - Cybertalents** (2024)
- **Real-Time Data Processing - Manara Data Engineering Path** (2024)

Languages

• Arabic: Native, English: Fluent, Turkish: Fluent, French: Intermediate