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Top Skills

GenAI
Amazon Web Services (AWS)
Agentics LLMs

Certifications

Intermediate SQL

IBM Certified Deployment Professional - SmartCloud Control Desk V7.5 Change Configuration Release Ma

Machine learning

Natural language processing

Introduction to Programming Using Python

Publications

Error Analysis of Pretrained Language Models (PLMs) in English-to-Arabic Machine Translation

Leveraging Corpus Metadata to Detect Template-based Translation: An Exploratory Case Study of the Egyptian Arabic Wikipedia Edition

Hesham Haroon

Building impactful AI systems | AI Lead| Proven track record in deploying machine learning & NLP solutions across industries
Cairo, Egypt

Summary

In the ever-evolving world of artificial intelligence, I find joy in exploring how technology can solve real-world problems. With a solid foundation in machine learning and natural language processing (NLP), my journey has led me through various exciting roles where I've had the pleasure of developing scalable AI solutions that make an impact across different sectors. My time at Robusta Technology Group allowed me to enhance NLP models significantly—leading to solutions that aligned perfectly with organizational goals while driving meaningful outcomes.

Before joining Robusta, I honed my skills as a Senior NLP Engineer at WideBot. There, I not only tackled complex challenges but also collaborated with a talented team to implement innovative approaches for text analysis and language translation. The thrill of experimentation fueled my passion as I delved into the latest advancements in NLP during my stint at LingoAI. It's incredibly rewarding to see how these technologies can transform operations and create value.

One of my most fulfilling experiences was mentoring budding engineers at lablab.ai. Guiding participants during hackathons ignited my enthusiasm for collaboration and innovation within the AI community. Sharing knowledge not only reinforces what I've learned but also inspires others to push boundaries—something I truly cherish about this field.

Throughout my career, I've been fortunate enough to contribute to projects that have measurable impacts. For instance, while at OMOTO, I implemented cutting-edge solutions that improved our business operations by streamlining processes by 30%. Additionally, my efforts in enhancing NLP algorithms have led to increased efficiency by 25% across various applications. These

accomplishments drive me further into this fascinating realm of technology.

When I'm not coding or mentoring aspiring tech enthusiasts, you might find me exploring local tech meetups or engaging with online communities focused on AI advancements. I'm always eager to connect with like-minded professionals who share a passion for technology's potential.

Feel free to reach out if you want to discuss AI innovations or explore collaboration opportunities! You can contact me via email for any inquiries or just a friendly chat about the latest trends in the industry.

Skills: Machine Learning | Natural Language Processing | AI Solutions Development | Text Analysis | Language Translation | Algorithm Enhancement

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Experience

Egyptian Company For Cosmetics - ECC
AI Team Lead
September 2025 - Present (3 months)
Cairo, Egypt

• Led the AI transformation across all departments at the Egyptian Company For Cosmetics, enhancing business operations and workflows.
• Developed and implemented AI tools to boost productivity among employees, streamlining processes and improving efficiency.
• Collaborated with cross-functional teams to identify areas for AI integration, ensuring alignment with company goals.

Robusta Technology Group (RTG)
Senior AI engineer
January 2025 - September 2025 (9 months)
Remote

WideBot
Senior NLP Engineer
July 2024 - January 2025 (7 months)
Qesm El Maadi, Cairo, Egypt

lablab.ai
Mentor
July 2024 - October 2024 (4 months)

I am excited to contribute as a mentor at Lablab.ai, a vibrant platform dedicated to fostering innovation and collaboration in the field of artificial intelligence. As part of my role, I guide participants in developing AI applications during hackathons and provide insights on leveraging cutting-edge technologies. Lablab.ai hosts diverse events that focus on real-world applications of AI in healthcare, finance, legal tech, and more, offering a unique opportunity for creators and innovators to refine their skills and bring groundbreaking ideas to life.

OMOTO
NLP Engineer
November 2023 - July 2024 (9 months)
Qesm El Zamalek, Cairo, Egypt

As an NLP Engineer at OMOTO , I specialize in harnessing the power of the latest advancements in natural language processing (NLP) to drive innovation and deliver value across our business operations. My role centers on developing and implementing cutting-edge solutions using large language models, enabling our organization to leverage the full potential of AI in understanding and generating human language.

Key Responsibilities:

Model Development and Optimization: Lead the design and development of advanced NLP models, focusing on the integration of state-of-the-art large language models to enhance our AI capabilities.
Business Application: Apply NLP techniques to solve complex business challenges, translating technical advancements into user-friendly solutions that improve our service offerings and operational efficiency

LingoAI
NLP Engineer
February 2023 - July 2024 (1 year 6 months)
Remote

Conducted research and experimentation in the field of Natural Language Processing (NLP) to enhance AI algorithms and Language Models (LLMs).

Developed and implemented innovative approaches for text analysis, language translation, and linguistic modeling.

Collaborated with cross-functional teams to integrate NLP solutions into products and services

ASAS AI
NLP Engineer
June 2023 - January 2024 (8 months)
Conducted NLP research papers, specializing in areas such as language language models Finetuning

Collaborated with a team to translate research findings into practical NLP-based product features.

Utilized deep learning frameworks and tools to implement state-of-the-art NLP models and techniques

Fellowship.AI
Machine learning fellow
June 2023 - October 2023 (5 months)
Build scalable machine learning models with agile software development methodology

Apply latest research in deep learning, generative adversarial networks, large language models

Iwan Research Group
NLP Engineer
April 2023 - September 2023 (6 months)
Riyadh, Saudi Arabia
I was working on evaluation of the Arabic translation models and analysis the errors
It was published in the paper "Error Analysis of Pretrained Language Models (PLMs) in English-to-Arabic Machine Translation"

Upwork
Freelance machine learning and NLP
June 2021 - August 2022 (1 year 3 months)

Developed NLP systems for various applications, achieving a 20% increase in machine translation accuracy and a 25% improvement in text mining efficiency.

Defined and applied datasets and text representation techniques, resulting in a 15% increase in language learning performance.

Trained and evaluated NLP models using diverse algorithms and tools, reducing model training time by 30%.

Performed statistical analysis and refined models, improving model accuracy by 10%.

Maintained and updated NLP libraries and frameworks, successfully resolving 50% more bugs compared to the previous year.

Stayed updated with the latest machine learning developments, implementing new techniques and approaches in 75% of projects.

Applied machine learning principles to various projects, increasing user recommendation accuracy by 25% and improving conversion of unstructured data by 30%

Education

Association for Computational Linguistics
Mentorship, Research · (March 2021 - March 2022)

Minia University
Bachelor's degree, Linguistics

Hertie School
Diploma · (May 2021 - May 2022)