FEDY BEN HASSOUNA

AI ENGINEER

CONTACT

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in Fedy Ben Hassouna

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Cité Olympique , Tunis

SKILLS

Languages

Python, SQL, C , C++ , assembly x86

Technologies

Numpy, Pandas, Tensorflow, scikit-learn, Jupyter, Keras, OpenCV, NLP, Tkinter, ML, PyTorch, PyCharm, NLTK , SpaCy , regex , HuggingFace , Pipeline , BeautifulSoup

Spoken Languages

English (Conversational), Arabic (Native) , Frensh (conversational)

EDUCATION

Engineering in Automation, Embedded Software, and Industrial IT

INSAT: National Institute of Applied Sciences and Technology

From 2021

Technical Sciences Baccalaureate degree

Monastir Pionner School

2020-2021   (18.07/20)

CERTIFICATIONS

Deep Learning for Computer Vision with Python and TensorFlow

Building Chatbots with Python , DataCamp

Introduction to Natural Language Processing in Python , DataCamp

PROFILE

Currently a fourth-year student in the Industrial IT and Automation engineering program at INSAT and an AI developer, I am looking for a part time job as AI engineer.

WORK EXPERIENCE

Machine Learning Intern

Digimytch,Tunis   08/2024

- Developed a machine learning model to detect defects in wind turbines by analyzing sensor data and performing data preprocessing. The objective of this project is :
  - - to identify early signs of failure, enabling predictive maintenance.
  - - to reduce downtime, lower maintenance costs
  - - to extend turbine lifespan, ensuring optimal performance.

Computer Vision Intern

MUST UNIVERISTY, Tunis   06/2024-08/2024

- Developed a deep learning model for the detection of cork oak trees using aerial imagery and advanced segmentation techniques. The objective of this project was:
  - - To accurately detect and estimate the biomass of cork oak trees for better forest management and conservation efforts.
  - - To optimize the model using advanced architectures like Mask R-CNN, leading to more precise detection and handling of complex scenarios.

PERSONNAL ACHIEVEMENTS

1st place at the HACK-E Hackathon with DHAWWINI

Tunis Science City   04/2024

DHAWWINI: An innovative energy solution combining a mobile solar panel and an AI-controlled turbine to meet the energy needs of unelectrified urban areas, offering a sustainable and efficient approach.

Dataquest Hackathon Participant

INSAT   02/2024

Ranked 11th out of 60+ teams in solving machine learning and deep learning challenges, showcasing strong problem-solving skills and technical expertise in a collaborative team environment.

PERSONNAL PROJECTS

AI Blog Post Summarization with Web Scraping

skills : HuggingFace Transformers ,BeautifulSoup , Pipeline

Real vs. Fake News Detection

skills : NLTK , tqdm , CountVectorizer, TfidfVectorizer , naivebayes

Handwritten Digit Recognition

skills :Tensorflow , Tkinter , PIL

Fedy BEN HASSOUNA
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18/08/2024

Hiring Manager
Gethsemane AI & Robotics Solutions

Dear Hiring Manager,

I am writing to express my interest in the Fall 2024 Internship Program at Gethsemane AI & Robotics Solutions. As a third-year student in Computer Industrial and Automatic Engineering with a strong focus on artificial intelligence and robotics, I am excited about the opportunity to gain hands-on experience with your innovative team. The chance to contribute to groundbreaking AI and robotics solutions that empower businesses aligns perfectly with my academic and professional aspirations.

Throughout my studies, I have gained a solid foundation in machine learning, computer vision, and automation, complemented by practical experience in developing AI-driven projects. My recent projects, such as analyzing wind turbine sensor data to predict failures and finetuning computer vision models for sustainability practices, have equipped me with the skills needed to excel in this role. Additionally, my involvement in the development of a Dino game controlled by eye blink detection highlights my ability to integrate innovative AI solutions into practical applications.

The Mentoring Academy program at Gethsemane particularly resonates with me, as I am passionate about driving sustainable digital transformation in Africa. I am eager to learn from the visionary experts at Gethsemane, contribute to your mission of delivering cutting-edge AI solutions, and grow within an environment that values pushing boundaries.

I am confident that this internship will provide me with invaluable experience, enabling me to develop marketable skills while contributing to the success of Gethsemane AI & Robotics Solutions. I look forward to the possibility of joining your team and contributing to the transformative work you are doing.

Thank you for considering my application. I am excited about the opportunity to discuss how my skills and experiences align with the goals of Gethsemane AI & Robotics Solutions.

Sincerely,

Fedy BEN HASSOUNA