Yassine Bouzid

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Portfolio: https://www.bouzid-y.com

Professional Summary

Innovative and results-driven Python Developer with a strong foundation in AI and machine learning, combined with extensive experience in project management. Proven track record of developing AI-enhanced applications to optimize industrial processes. Adept at problem-solving, coding, and experimenting with new technologies. Eager to contribute to a dynamic startup environment , leveraging a passion for AI to deliver impactful solutions.

Skills

- Programming Languages: Python, .NET Framework, JavaScript, SQL, Flask, TensorFlow/Keras, Qt, Arduino
- AI/ML Tools: Deep Learning, Computer Vision, NLP, Radiographic Imaging, TensorFlow
- Database Management: MySQL, SQLite, AWS RDS
- Web Development: Flask, HTML, CSS
- Project Management: Agile Methodologies, Investment Tracking, Technical Documentation
- Other: Digital Radiographic Imaging Systems, OCR Technology.

Projects

- **Deep Learning-Enhanced Radiographic Defect Detection for Radiographic Industrial Inspection (for ALFAPIPE-2020):**
    - Trained deep learning models for computer vision to automate weld defect detection.
    - Detects weld defects in real-time videos, creates reports, and updates databases.
    - Significantly reduced manual inspection time by automating actions based on predefined criteria.
    - Communicates with several machines and computers via LAN to organize the inspection process.

- **RT_REPORTER – Radiogram Inspection Automation Tool (for ALFAPIPE -2021):**
    - Developed a robust application for automating radiogram inspection and generating Excel reports.
    - Integrated deep learning techniques for detecting weld defects and making inspection decisions.
    - Eliminated human error through standardized inspection procedures and smart folder navigation by tube number.
    - Enhanced usability with features like one-click image saving, selection mode input, and automatic report generation.
    - Provided seamless archiving and folder management while maintaining minimal system resource usage.

- **CKindustry UT Machine Calibration Application (for CKindustry, Germany - 2022):**
    - Developed a Python application to automate UT machine calibration and signal processing.
    - Features a PyQt5 interface for interactive signal management.
    - Integrates with AWS for secure data storage and retrieval.
    - Generates detailed Excel and PDF reports.
    - Enhances data accuracy and ensures compliance with industry standards.

- **AI-Enhanced Project Tracking Web Platform: “Suivi des Investissements” (for ALFAPIPE - 2023):**
    - Simplified project tracking with real-time updates and intuitive graphics.
    - Enabled project browsing and document attachment for financial management.
    - Utilized OCR technology for scanned document conversion and encryption.
    - Implemented AWS RDS for multi-platform access and AI NLP for contract summaries and information extraction.
    - Designed a user-friendly interface suitable for all investor levels.

- **Patient Progress and Diagnosis Tracker**

    - Centralized patient data management with personal details, medical history, and treatment plans.
    - Profile display with a user-friendly interface and photo integration.
    - Automatic PDF report generation for each patient situation.
    - Secure document storage and real-time data analysis.

Patents

- Intelligent Real-Time Fully Automated Digital Radiographic Inspection System for Non-Destructive Testing of Helically Welded Tubes
    - Patent Number: 230264, Issued by INAPI, Algeria, March 2023

Professional Experience

Project Manager & Python DeveloperALFAPIPE, Ghardaia, Algeria November 2022 – Present

- Lead the development and implementation of AI-driven business applications, enhancing efficiency in pipeline manufacturing.
- Designed and deployed a web-based project tracking platform integrating AWS RDS, OCR technology, and AI NLP for contract management.
- Collaborated with cross-functional teams to identify and solve complex technical challenges, driving innovation in industrial processes.

NDT Quality Inspector ALFAPIPE, Ghardaia, AlgeriaJune 2015 – November 2022

- Developed and implemented deep learning models for radiographic defect detection, automating the inspection of welded tubes.
- Conducted extensive testing and validation of AI models, resulting in a significant reduction in manual inspection time and improved accuracy.
- Provided technical expertise in radiographic testing, ensuring compliance with industry standards.

Technical Engineer GEBHER (Gas Utility Company), Metlili, AlgeriaMarch 2013 – March 2015

- Managed the technical aspects of gas utility projects, including system design, testing, and implementation.
- Collaborated with cross-functional teams to troubleshoot and resolve technical issues, ensuring project success.

Education

Master's Degree in Electrical Engineering University of Djilali Liabes, Sidi Bel Abbes, AlgeriaSeptember 2010 – July 2012

- Specialized in electromechanical Systems and Automation

Bachelor's Degree in Electrical Engineering University of Djilali Liabes, Sidi Bel Abbes, AlgeriaSeptember 2007 – July 2010

- Specialized in electromechanical Systems and Automation

Certifications

- ASNT NDT Level II Radiographic Testing – VINÇOTTE, Algiers, Algeria – October 2020
- Academic IELTS B2 – British Council, Algiers, Algeria
- Certificate of Public Procurement Procedures – Integrated Solution, Hassi Messaoud, Algeria – February 2023

Languages

- Arabic: Native
- French: B2 (Listening, Reading, Spoken Production), B1 (Writing)
- English: B2 (Listening, Reading, Writing, Spoken Production)