

KHERIN BUNDHOO

AI Engineer

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PROFESSIONAL SUMMARY

Linkedin: <https://www.linkedin.com/in/kherinbundhoo/>

WORK HISTORY

AI Engineer | Telesio France/Mauritius Ltd - Ebene, Center

07/2023 - Current

Technologies: Python, Scikit-learn, Pandas, SMOTE, LIME, SHAP, Yellowbrick, Matplotlib, Seaborn

- Developed a machine learning-based fraud detection system for e-commerce transactions using supervised learning techniques to identify fraudulent activities with high accuracy
- Implemented comprehensive data preprocessing pipeline including exploratory data analysis, class imbalance detection, and SMOTE oversampling to handle unbalanced datasets
- Built and optimized Random Forest classifier with 100 estimators, achieving robust performance through feature engineering with one-hot encoding for categorical variables
- Conducted thorough model evaluation using multiple performance metrics including accuracy, precision, recall, F1-score, ROC-AUC score, and confusion matrix analysis
- Integrated explainable AI techniques using LIME and SHAP libraries to provide interpretable insights into model predictions and feature importance
- Utilized advanced visualization tools (Yellowbrick) to generate professional classification reports, ROC curves, and confusion matrices for comprehensive model assessment
- Applied industry best practices for train-test splitting (70/30) and cross-validation to ensure model generalizability and prevent over-fitting

Senior Software Engineer | MCB Group Ltd - Port-Louis, North

02/2020 - 07/2023

- Developed and maintained user-friendly web applications using Angular framework.
- Implemented responsive design principles to ensure optimal user experience across multiple devices and screen sizes.
- Collaborated closely with designers, back-end developers, and project stakeholders to translate wireframes and mockups into functional, interactive features.
- Implemented Angular routing and navigation to enhance user flow and improve overall application performance.
- Integrated RESTful APIs and third-party libraries to retrieve and manipulate data within the application.
- Conducted thorough testing and debugging to identify and resolve frontend issues, ensuring high-quality code and seamless functionality.

Consultant | Spoon Consulting - Saint Pierre, Moka

07/2017 - 02/2020

- Proficient in Salesforce Apex, Lightning Web Components (LWC), and Flow, leveraging these technologies to develop robust and scalable solutions within the Salesforce platform.
- Extensive experience in designing, developing, and implementing Apex classes, triggers, batch processes, and controllers to automate complex business processes and enhance overall system functionality.
- Skilled in Lightning Web Components (LWC) development, creating reusable UI components and integrating them seamlessly into Salesforce applications for enhanced user experience and improved productivity.
- Strong understanding of Salesforce Community Cloud and its customization capabilities, including the creation and configuration of custom templates to deliver personalized and engaging experiences for community users.

EDUCATION

University of Mauritius - Reduit, Moka

03/2021 - 10/2024

Master of Science: Artificial Intelligence

University of Mauritius - Reduit, Moka

08/2014 - 10/2017

Bachelor of Science: Software Engineering

PROJECTS

JudgementQ

A Legal Document Question-Answering System for Mauritian Supreme Court Judgments

The notebook can be found on Kaggle:

<https://www.kaggle.com/code/kherin/judgements-rag>

CERTIFICATIONS

- [Anomaly Detection in Python \(DataCamp Course\)](#)
- [AWS Machine Learning Foundations Course \(Udacity Course\)](#)

ACCOMPLISHMENTS

Awards and Honors

May 2024 PyCon US 2024, Pittsburgh

- Due to my contributions to the Python community in Mauritius, I was awarded a travel grant by the Python Software Foundation to attend in-person the conference in Pittsburgh, Pennsylvania, US

October 2023 SDWorx Sparkathon 2023

- **2nd Place** at Sparkathon 2023 (SDWorx)

The theme for the Hackathon – "Optimising the Employee Lifecycle."

September 2018 Ceridian's Innovation Challenge

- **1st place** at the Ceridian's Innovation Challenge 2018 which involved the presentation of a Proof of Concept that could resolve one of the current challenges lingering on the Mauritian landscape.

October 2017: Krakathon (2nd Edition)

- **2nd place** at the second edition of the Krakathon (A 24-hour coding marathon involving the developers across Mauritius).