

ABDIRAHMAN HASSAN ABDI

Python developer/ AI Engineer

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Portfolio | **Linkedin** | **GitHub**

EDUCATION

Cavendish University Uganda
Computer Science Bachelor Degree
CGPA: 3.98

Kampala
Oct - 2020 - Dec - 2023

EXPERIENCE

Taaj Services | Data Entry Specialist

Remote | Feb - 2021 - Nov - 2023

- Processed an average of 1,200 customer and account source documents per month, ensuring data accuracy and completeness.
- Maintained a 99% accuracy rate in data entry while ensuring all information was kept confidential and secure.
- Successfully identified and resolved 20 data entry errors per week, contributing to a significant reduction in data inaccuracies and improving overall efficiency.

Macruuf Agency | Operations Manager

Kampala, Uganda | Jan 2024 - Present

- Optimized Scheduling: Developed automated tools to streamline staff scheduling, improving efficiency and workload balance across clients.
- Team Leadership: Supervised a team of 6, ensuring high service standards and operational excellence.
- Process Automation: Implemented Python-based solutions to automate data entry and reporting, reducing errors and saving time.
- Data-Driven Decisions: Leveraged data analysis to forecast demand and optimize resource allocation.
- Financial Management: Managed budgets and created automated financial reports to support strategic planning.
- Client Relations: Maintained strong client relationships, enhancing service quality through personalized attention and effective communication.

SKILLS

Programming Languages: Python, CSS, HTML5

Libraries/Frameworks: Pandas, Django, Flask, Tkinter, BeautifulSoup, Scikit-learn, Requests, Seaborn, Matplotlib, Tenacity, Ebooklib, Openpypxl, BeautifulSoup4, JavaScript, PyQt5

Tools / Platforms: Github, Excel, Kubicle, IBM Cybersecurity Tools

PROJECTS / OPEN-SOURCE

Machine Learning Model For diabetes Prediction | [Link](#)

Python, scikit-learn, pandas, html, css,

seaborn, matplotlib and Flask

- This project uses machine learning to predict diabetes based on health indicators such as age, BMI, blood glucose levels, and more.
- The dataset is preprocessed to handle missing values, encode categorical variables, and normalize numerical features.
- A logistic regression model is trained and optimized using grid search cross-validation.
- The model's performance is evaluated using the ROC AUC score and a classification report.

ChapterVerse: Web Scraping & EPUB Conversion | [Link](#)

Python, Requests, BeautifulSoup4, ebooklib, Tenacity, concurrent.futures

- ChapterVerse is designed to scrape online novels and create EPUB files from their chapters.
- Provides concurrent scraping capabilities to improve efficiency.
- Includes error handling with automatic retry logic for transient network errors.
- Allows adding customizable cover images to the generated EPUB files.

ExcelConvertGUI | [Link](#)

Python, Tkinter, pandas, openpypxl

- This Python script creates a GUI for converting multiple Excel files into a single Excel file with each file's data on a separate sheet.
- Features include file validation, error handling, and user feedback.
- Users can select multiple files, choose the target location, and the script merges the data, providing informative messages throughout the process.

GPA Calculator | Link *Python, PyQt5, QVBoxLayout, QHBoxLayout, QPushButton, QLabel, QLineEdit, QScrollArea, QGridLayout, QMessageBox*

- **Dynamic GPA Calculator Application:** Developed using Python and PyQt5, this application allows users to dynamically add semesters and input grades and credit units for each module, providing real-time GPA calculations.
- **User Interface Components:** Utilizes various PyQt5 widgets such as QVBoxLayout, QHBoxLayout, QGridLayout for organizing the GUI, QPushButton for interactive actions, QLabel for displaying text and results, and QLineEdit for user input.
- **Functionality and Error Handling:** Features include adding semesters, calculating semester and cumulative GPAs, and robust error handling to manage invalid inputs and mismatched data, ensuring accurate GPA calculations and a smooth user experience.

My portfolio | Link

HTML, CSS, JavaScript

- **Interactive Portfolio Website:** Developed a dynamic and visually appealing portfolio website using HTML, CSS, and JavaScript to showcase professional skills, projects, and experiences effectively.
- **Responsive Navigation:** Implemented a fixed navigation bar with smooth scrolling to different sections of the website, enhancing user experience and navigation ease.
- **Dynamic Content Loading:** Utilized JavaScript to dynamically load content into the skills, projects, experience, and education sections, ensuring a clean and maintainable codebase.

CERTIFICATIONS

- Data Manipulation and Formatting in Excel - **Kubicle**
- Formulas and Functions in Excel - **Kubicle**
- IBM Cybersecurity Practitioner - Certificate - **IBM**