

Muhammad Sikandar Subhani

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WORK EXPERIENCE

JAN 2024 – CURRENT United Kingdom
WEB DEVELOPER WEBOTIST TECHNOLOGIES LTD

Main Activities and Responsibilities

- Frontend Development
- Developed responsive web interfaces using HTML5, CSS3, and Bootstrap
 - Implemented interactive user experiences with JavaScript
 - Created dynamic form validation to enhance user input accuracy and security
 - Optimized client-side performance and cross-browser compatibility
- Backend Development
- Built robust web applications using **Python** and **Flask** framework
 - Implemented Flask-WTF for comprehensive form handling and validation
 - Configured Flask-Mail for efficient email communication and authentication
 - Developed WSGI application configurations for seamless deployment
 - Implemented advanced logging mechanisms for error tracking and debugging
- Testing and Quality Assurance
- Developed comprehensive test suites using **Pytest**
 - Implemented unit and integration tests to ensure application reliability
 - Created mock objects and test fixtures to validate application functionality
 - Conducted thorough testing across local and remote environments
- Deployment and Infrastructure
- Diagnosed and resolved deployment issues in shared hosting environments
 - Configured application paths and directory structures
 - Managed file permissions and static file serving
 - Implemented .htaccess rules for efficient routing
- Additional Technical Achievements
- Developed comprehensive technical documentation and implementation guides
 - Troubleshooted email authentication challenges
 - Configured SPF and DKIM records for enhanced email deliverability
 - Utilized diagnostic tools like MXToolbox and Google Postmaster Tools

Website <https://www.webotist.com/>

PROJECTS

AI-Powered Skincare Recommendation System

Developed a Convolutional Neural Network (CNN) for advanced skin disease classification using Keras and TensorFlow, achieving Training Accuracy of 96.00% and Validation Accuracy of 97.00%, Classified 15 distinct skin conditions with high precision.

- Machine Learning Architecture:
- Implemented custom deep learning model with 3-layer CNN
 - Utilized RandomOverSampling to address class imbalance
 - Applied swish activation functions and Nadam optimizer for enhanced model performance
 - Processed 28x28 pixel dermatological images with precise preprocessing and normalization
- Web Application Features:
- Created Flask-based web interface for seamless image uploads
 - Integrated user authentication and secure file handling
 - Developed intelligent recommendation system providing personalized treatment suggestions based on AI predictions
 - Created end-to-end user journey from image upload to treatment recommendation
- Model Specifications:
- Input Layer: 28x28x3 image dimensions
 - Layers: 3 Convolutional, 3 MaxPooling, 1 Flatten, 2 Dense layers

LESCO AutoBill Reminder

- Engineered an automated Python-based bill retrieval system for LESCO electricity bills using **Selenium** WebDriver in Headless mode
- Developed advanced CAPTCHA solving mechanism using **Pytesseract OCR** to bypass login challenges
- Implemented dynamic multi-account bill tracking with log comparison to detect monthly changes
- Created robust error handling and retry mechanisms for seamless web scraping across different accounts
- Automated PDF bill download and storage with intelligent folder organization based on account and date
- Utilized logging module for comprehensive system monitoring and troubleshooting

Directory Synchronizer

- Developed a Python-based desktop application with GUI interface using **Tkinter** for automated directory synchronization
- Implemented real-time file system operations to efficiently compare and synchronize files between source and destination directories
- Incorporated error handling and user feedback mechanisms to ensure reliable file transfers and prevent data loss
- Utilized OS operations and file handling libraries (os, shutil) to manage cross-platform file system interactions
- Features include:
 - Intuitive graphical interface for directory selection
 - Intelligent file comparison using modification timestamps
 - Recursive directory traversal and structure preservation
 - Automated creation of missing directories
 - Real-time progress feedback and error reporting

Chess Console Game

- Interactive console interface with turn-based gameplay.
- Accepts user moves for each turn.
- Updates the chessboard dynamically with every input.
- Validates moves, handles check/checkmate, and includes draw conditions. Scalable, documented, and suitable for educational purposes.

EDUCATION AND TRAINING

OCT 2020 – JUL 2024 Lahore, Pakistan
BSCS University Of Lahore

- Programming Fundamentals & OOP
- Data structures and Algorithm
- Web Development & Database Management
- Operating System
- Artificial Management & ML

Field of study Programming, Software Development | Thesis AI-Based Skincare Recommendation System

CS50X : INTRODUCTION TO COMPUTER SCIENCE Harvard University

- C, Python, SQL, Flask, Algorithms

DIGITAL SKILLS

Python | C/C++ | JAVA | BASH | Git | Flask | Django | SQLAlchemy | WTForms | Jinja (Flask) | Pandas | Numpy | Scikit-Learn | OpenCV | Tensorflow | Selenium (Using Python script) | SQL | SQLITE3 | MySQL | OCR (Tesseract, Pillow)

HOBBIES AND INTERESTS

Chess, Playing Cards, Badminton