



# Muhammad Tayyab

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## EDUCATION AND TRAINING

01/09/2019 – 01/07/2023 Mardan, Pakistan

**BSC. COMPUTER SOFTWARE ENGINEERING** University of Engineering and Technology Mardan

**Address** Charsadda Road, 23200 Mardan Khyber Pakhtunkhwa, Pakistan, Mardan, Pakistan |

**Website** <https://www.uetmardan.edu.pk/uetsm/>

01/09/2017 – 01/07/2019 Swabi, Pakistan

**FSC. PRE ENGINEERING** The Quaid-e-Azam College Swabi

**Website** <https://qpscsw.edu.pk/>

## WORK EXPERIENCE

**RPA ENGINEER – MERCURIAL MINDS** – 01/10/2024 – Current – ISLAMABAD, PAKISTAN

AI Automations | Intelligent Automations | ML Model Training | Scripting in UiPath | Automation Anywhere | Developing Automations using Power Automate | Robot Framework and Python | Providing Custom Solutions, UATs | Providing Support to Processes | Meeting with Clients | Code Changes in Deployed Processes | Bug Fixes | AI-Powered Automations

**RPA DEVELOPER – MERCURIAL MINDS** – 01/01/2024 – 30/09/2024 – ISLAMABAD, PAKISTAN

Deep Dive into RPA | Scripting in UiPath | Robot Framework and Python | Code Reviews | Working on Client Projects | UATs, HyperCare | Providing Support in HyperCare | Monitoring Robots | Working with SCM Tools.

**RPA INTERN – MERCURIAL MINDS** – 11/09/2023 – 31/12/2023 – ISLAMABAD, PAKISTAN

Understanding RPA | Exploring RPA Tools | Scripting in Python | Working with Pandas and Matplotlib Libraries | Exploring Robot Framework and its libraries | Automations using Robot Framework

## SKILLS

Python (computer programming) | fast API | Sckit-Learn | Generative ai | computer vision | RPA | RPA USING UIPATH | Make.com | n8n | automation anywhere | Robot Framework | robocorp | Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation | Version Control System (Git) | Java (computer programming) | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | Ticketing (Ticketing System) | Databases | power automate | power automate cloud

## PROJECTS

**Todo Management REST API | FastAPI**

Developed a secure Todo application with well-structured REST endpoints, proper exception handling, and accurate HTTP response codes. Integrated a relational database with support for schema changes through a data migration tool. Implemented strong request/response validation and JWT-based authentication with role-based authorization,

including admin-exclusive operations. Added complete automated test coverage for all endpoints to ensure reliability and data integrity.

**Link** <https://github.com/mtayyab153/Python/tree/main/Fast API/Project 4 Todo App Testing>

## **Intent Classification App | ML & FastAPI**

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Designed and deployed a text classification solution by training and optimizing a Scikit-learn model on a custom dataset. Applied feature engineering techniques such as tokenization and vectorization to transform raw text into meaningful numerical representations before training the model using classical machine learning algorithms. Evaluated model performance with multiple metrics, including accuracy, precision, recall, and F1-score, and documented key limitations and edge cases related to domain-specific text and data imbalance. Integrated the model into a FastAPI service with prediction and health-check endpoints, and containerized the complete application using Docker for consistent and scalable deployment environments.

**Link** [https://github.com/mtayyab153/intent\\_classification\\_api](https://github.com/mtayyab153/intent_classification_api)

## **RAG-Based Document QA System | Generative AI | LangChain**

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Built a retrieval-augmented Q&A application that processes PDF document, chunks and embeds content for semantic search, stores vectors in vector database, and generates answers by retrieving relevant information during user queries.

**Link** [https://github.com/mtayyab153/Python/tree/main/iNueron Gen Ai/6\\_chroma\\_db](https://github.com/mtayyab153/Python/tree/main/iNueron Gen Ai/6_chroma_db)

## **Blocking Malicious IP, Domains and Hashes | HBLMFB | RPA**

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The process begins with receiving an email containing malicious IPs, domains, and file hashes. These indicators are extracted and stored in a database with an initial status of 'To Work'. Each item is then processed for blocking across the respective security portals. Based on the outcome, their statuses are updated to 'Completed' or 'Failed'. Failed entries are then retried when it is triggered again. At the end of the day, a comprehensive report is generated and sent to the client.

## **Employee Resignation Alerts | HBLMFB | RPA**

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The process begins with an email containing details of an employee intending to resign. The process updates the employee's record by setting the specified end date. Once the end date is reached, the employee's account is disabled to ensure proper offboarding and access control.

## **Bank Statement | EDB | RPA**

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This process involves retrieving ticket data from the Customer Portal, including details such as ticket number, CNIC, email, name, and statement duration (from and to dates). Based on this information, the bot downloads the customer's statement from another portal and sends it directly to the customer, ensuring timely and accurate service delivery. And logs are dumped to excel file.

## **CIM Process | HBLMFB | RPA**

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The CIM (Customer Identity Management) process involves managing user accounts across Active Directory and two banking portals. Key tasks include enabling and disabling user IDs, creating new users, resetting passwords, and ensuring consistent access control across all systems. The process helps maintain secure and efficient user lifecycle management within the organization.

## **Dormant Account Activation (HBLMFB)**

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The process is initiated when a scanned PDF is placed on a shared path by the Process Owner. A bot reads and extracts data from the PDF, performs pre-checks on the portal related to the user's account, and removes any dormancy if applicable. The bot then updates the Process Owner with the status and logs the details into a database for tracking and auditing purposes

## **Sunwai Complaint Process | EDB | RPA**

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This process reads incoming tickets from the State Bank Sunwai Portal and locks the corresponding cases on the Client Portal to prevent duplicate handling and ensure proper tracking of customer complaints

## **Invoice Data Extraction | Parco Limited | RPA**

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This process extracts the required details from the document and records them in the portal, processing each entry one by one to ensure accurate data entry and tracking.

## **Hospital Management System | Web App | Java | Spring boot**

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Built a backend application for a hospital using Spring Boot to streamline operations, including modules for patients, doctors, and departments. Utilized MySQL for data storage and deployed the application on Railway.com.

## **Library Management System | Web App | (HTML,CSS,JS/PHP)**

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Developed a Library Management System (LMS) using PHP, featuring functionalities such as book management, user registration, and login. Implemented session-based data storage and built the application with full CRUD operations.

## **Library Management System | Android App | JAVA**

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Developed a Library Management System (LMS) using Core JAVA and MySQL, featuring functionalities such as book management, user registration, and login. Implemented session-based data storage and built the application with full CRUD operations.

## **Movie Rental Application | Backend | (Node,Express,MongoDB)**

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Developed the backend of a Movie Rental Application using Node.js, Express, and MongoDB. The system allows users to browse available movies, rent and return them, and manage customer and rental data. Implemented RESTful APIs for seamless interaction, incorporated validation and error handling, and ensured efficient database operations with Mongoose. Designed with a modular structure for scalability and maintainability

## **LICENSES AND CERTIFICATIONS**

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### **SQL (Basic) HackerRank**

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Link <https://www.hackerrank.com/certificates/iframe/64d04ef81d62>

### **Automation Anywhere Advanced**

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Link <https://certificates.automationanywhere.com/c58e5075-cc0d-4025-9140-63a5c498f40a#acc.92ABixH1>

### **Automation Anywhere Essentials**

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Link <https://certificates.automationanywhere.com/cecaddee-4dd0-4aa4-96a2-d8c702d257cd#acc.Xyj5FrRN>

### **UiPath Automation Developer Associate Training**

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Link <https://credentials.uipath.com/d145b46c-c183-4d1c-8cd6-e9d5bf6f963b#acc.5ZVchSK0>

### **make-foundation**

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Link [https://www.credly.com/badges/65798286-2060-485a-af7f-14be16a9f9a8/public\\_url](https://www.credly.com/badges/65798286-2060-485a-af7f-14be16a9f9a8/public_url)

### **Robo Corp Level 1 Certification**

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### **Pandas**

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### **Python**

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### **Intro to Programming**

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