

# MOHAMED RUSAICK MUFTHI

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## PROFESSIONAL SUMMARY

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Dedicated Software Engineering graduate (HND) with hands-on experience in AI, cybersecurity, web development, and UI/UX design through academic and project work. Key projects include a hospital queue management system and a comparative research project on traditional machine learning models vs. neural networks for XSS attack detection in web applications. Skilled in Python, web technologies, and database management. Currently serving as President of the BCAS IT Society (BITS), demonstrating strong leadership, teamwork, and organizational skills. Eager to apply technical expertise and innovative problem-solving in a dynamic internship or professional environment.

## EDUCATION

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### Pearson BTEC HND in Software Engineering

Jan 2024 - Sep 2025

BCAS Campus - Kalmunai

### Ordinary Level & Advanced Level

2019 - 2023

Zahira College - Kalmunai

## SKILLS

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**Programming:** Python | **AI/ML:** Machine Learning, Data Analytics, Generative AI | **Web Development:** HTML, Streamlit, SQLite | **Soft Skills:** Presentation, Research, Analytical, Treasury Management, Leadership |

**Languages:** English, Tamil

## ONLINE CERTIFICATIONS

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- **Simplilearn** : Introduction to Flutter, Cloud Computing, Cyber Security, Machine Learning using python
- **Great Learning** : Introduction to Python for ML and Data Science, Java Programming, Programming Basics
- **Solelearn** : Python Developer, Generative AI in Practice, Web Development, Ethical AI Foundations
- **LinkedIn** : AI for Cybersecurity, Introduction to Career Skills in Software Development
- **AWS** : AWS Educate Machine Learning Foundations
- **Udacity** : Introducing Generative AI with AWS

## VOLUNTEERING & MEMBERSHIP

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### Treasurer, BCAS IT Society (BITS)

May 2024 - April 2025

- Managed financial planning and budgeting for society events and programs.
- Maintained accurate financial records and ensured transparency.

### President, BCAS IT Society (BITS)

April 2025 - Present

- Led society initiatives and organized major tech events and workshops.
- Directed team coordination, student engagement, and innovation-focused activities while fostering collaboration and leadership within the society.

## PROJECT & RESEARCH

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### Hospital Booking System : AI-Powered Queue Time Prediction

Sep 2024 - Dec 2024

Developed an AI-based hospital booking system to optimize patient appointment scheduling and reduce wait times. Implemented a machine learning model (Decision Tree Regressor) to predict consulting times with a 91.5% accuracy ( $R^2$  Score). Designed and deployed a web-based interface using Streamlit with SQLite integration for efficient booking management.

- **Tools & Technologies:** Python, Machine Learning (XGBoost, Decision Tree Regressor), Streamlit, SQLite, NumPy, Pandas, Scikit-Learn, Matplotlib, Twilio API

### A Comparative Study and Performance Evaluation of Traditional Machine Learning Models vs Neural Networks for Cross-Site Scripting (XSS) Attack Detection in Web Applications

Jan 2025 - Sep 2025

Conducted research on detecting Cross-Site Scripting (XSS) attacks in web applications using AI-driven models, comparing traditional machine learning algorithms (Logistic Regression, Naïve Bayes, Random Forest, XGBoost) with a Neural Network (MLP). The models were evaluated using Accuracy, Precision, Recall, F1-score, and ROC-AUC, where XGBoost achieved the highest accuracy of 99.81%. Additionally, developed a Streamlit-based web application to demonstrate real-time XSS detection and visualization.

- **Tools & Technologies:** Python, Scikit-learn, Machine Learning, TensorFlow/Keras, Pandas, Matplotlib, Streamlit.

## REFERENCES

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