

# Muhammad Zulhaziq bin Noramin

1115-3-4 Pangsapuri Sribayanmas Jalan Permatang Damar Laut, 11900,  
Bayan Lepas, Pulau Pinang  
P: 01126400207 | zulhaziqnoramin@gmail.com | www.linkedin.com/in/muhdzulhaziq

## SUMMARY

Computer Science student with a 3.64 CGPA and Dean's List recognition, specializing in machine learning, data science, and analytics. Experienced in designing and deploying deep learning and agentic AI systems, building end-to-end data pipelines, and developing BI dashboards to support data-driven decision-making.

## EDUCATION

### Universiti Teknologi MARA, Cawangan Tapah

Bachelor in Computer Science

Sept 2023 - Present

Cumulative GPA: 3.64; Dean's List 2023-2025

Relevant Coursework: Software Engineering, Operating Systems, Artificial Intelligence, Database Engineering, Data Structures, Business and Data Analytics

### Kolej Matrikulasi Pulau Pinang | Physical Module | CGPA: 3.71 | MUET: 4.0

- Group Leader in Peers teaching program for Mathematics and Physics

July 2022 - May 2023

### SMK Bukit Jambul

- 2<sup>nd</sup> runner up on National Kenken Puzzle Championship 2021
- Participated in STEM Creating Video Competition 2020

Jan 2020 - Mar 2022

## WORK EXPERIENCE

### Kumon Education Centre

Kumon Instructor Mathematics

Jun 2024 – Sep 2024

- Communicated effectively with students and parents to manage classroom activities and maintain a productive learning environment
- Tracked and analysed student progress data to identify learning gaps and adjust teaching plans accordingly

## CERTIFICATIONS

### Deloitte Data Analytics Job Simulation | Forage

May 2026

- Built Tableau dashboards and performed data classification for client business reporting, gaining direct exposure to Deloitte's data analytics methodology and consulting approach
- Performed Excel-based data classification for analytical reporting

## UNIVERSITY PROJECTS

### YouTube Audience Sentiment & Engagement Analytics | Data Scientist

July 2026

- Scraped and processed 5,046 YouTube comments across 101 videos using the YouTube Data API, applying random sampling to eliminate recency bias and building an end-to-end NLP preprocessing pipeline to prepare unstructured text data for downstream analysis
- Applied a DistilBERT transformer model for automated sentiment labelling, achieving 96.2% mean confidence across 3,849 training samples, and engineered 12 analytical features including a weighted engagement score to quantify content performance
- Collaborated in a team of 4-5 to build and compare predictive models (Logistic Regression, Naive Bayes, SVR, Random Forest) for sentiment and engagement prediction using RapidMiner

### Retail Sales Performance Analysis & Forecasting | Solo

April 2026

- Cleaned and analyzed a retail dataset of 9,994 records using Python and Pandas, conducting exploratory data analysis through group by aggregation and Matplotlib visualizations to identify key sales and profit drivers across regions, categories, and sub-categories
- Designed an interactive Power BI dashboard combining KPI cards, a choropleth map of sales by state, and category-level profit breakdowns to support stakeholder-facing business reporting

### **Biotype – Behavioral Biometrics Authentication System | Lead Developer**

Feb 2026

- Designed and implemented a Siamese Neural Network with triplet loss for behavioral biometric authentication, achieving a reduction in Equal Error Rate from ~40% to ~20% through iterative model improvement
- Engineered a full ML pipeline in Python covering data extraction from raw keystroke sources, image transformation, model training, and performance evaluation using TensorFlow, Keras, and Matplotlib
- Sourced and processed large-scale training data from the Aalto University Desktop Dataset, overcoming access challenges across multiple academic dataset sources to ensure pipeline completeness
- Evaluated model performance and potential failure cases, documenting preprocessing methodology and evaluation criteria to ensure transparency and reproducibility of results

### **Baldness Detection System – Web-Based Diagnostic Tool | ML Engineer**

Nov 2025

- Trained and optimized a YOLOv8 medium object detection model to classify scalp conditions into three severity levels (Good, Mild, Severe) for real-time diagnostic use
- Managed complete ML pipeline including dataset curation, annotation, preprocessing using OpenCV, model training, and validation to ensure production-ready accuracy
- Analyzed patterns across image data to identify distinguishing visual features between severity classes, improving classification performance
- Documented data preprocessing decisions and validation outcomes to ensure transparency, accuracy, and reproducibility of outcomes

### **AdsUrEvent – Event Management Web Application | UI Designer**

Sept 2024

- Collaborated with a cross-functional team to design and implement the full frontend of a university event management web application, coordinating on layouts and user flow
- Communicated regularly with teammates to align on design decisions and resolve conflicting priorities across event browsing, payment, and part-timer recruitment features

## **ACTIVITIES**

---

### **Autopilot Asia Hackathon 2026**

Participant

July 2026

- Designed and built a multi-agent AI system (1 Orchestrator + 5 specialized Operator Agents) to automate lead qualification and outreach, reducing lead response time from days to seconds
- Integrated 4 live systems (Supabase, HubSpot CRM, Slack, Microsoft Outlook) to build an end-to-end pipeline covering visitor identification, CRM enrichment, intent scoring, automated email outreach, and human-in-the-loop escalation

### **Prosolve National 2025**

Participant

Apr 2025

- Competed in a national-level competitive programming competition, solving algorithms and technical coding challenges under time constraints

### **Hack Blast 2024**

Participant

Nov 2024

- Designed and implemented a relational database schema for a car rental management system, handling data modelling and query logic under hackathon time constraints

## **ADDITIONAL**

---

**Programming Languages:** Python, SQL, JavaScript, PHP, Java, C++, MATLAB

**Web Technologies:** HTML, CSS

**Frameworks & Libraries:** TensorFlow, Keras, Scikit-learn, OpenCV, YOLOv8, Pandas, Matplotlib, NLTK, Transformers (HuggingFace), Prophet

**Tools & Software:** RapidMiner, Tableau, Power BI, Microsoft Excel (Macro/VBA), MySQL, PostgreSQL, MongoDB, Supabase, Oracle APEX, Figma, Git/GitHub

**Languages:** Malay (Native), English (Proficient)