

VAISHNAVI YUDEYELJODI

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Data Science postgraduate (3.85 CGPA) with AI/ML specialization. Experienced in building backend applications and data pipelines using Python, FastAPI, Docker, TensorFlow, and Scikit-Learn through research and academic projects.

TECHNICAL SKILLS

Languages & Web Technologies: Python, SQL, Java, R, C++, JavaScript, PHP, HTML5, CSS.

Databases & Cloud Infrastructure: NoSQL (Firestore), SQLite, Docker, Apache Hive, Data Lakes, Cloudflare DNS, Amazon Web Services (AWS), AWS CLI, Google Cloud Platform (GCP), Snowflake.

Frameworks & Libraries: FastAPI, RapidFuzz, Scikit-Learn, NumPy, Pandas, SciPy, TensorFlow, Keras, Apache Spark, Apache Hadoop, GeoPandas, Matplotlib, Folium, Streamlit, LIRE.

Tools & Platforms: MATLAB, Linux (Ubuntu), Oracle SQL Developer, DBeaver, Jupyter Notebook, Google Colab, Kaggle Notebook, RStudio, Visual Studio Code, Git, GitHub, Network File System (NFS), Claude Code.

PROFESSIONAL EXPERIENCE

Technical Operations Intern

Feb - Aug 2020

Accom Click Sdn. Bhd.

- Provided comprehensive IT support for internal teams, executing email system migrations, troubleshooting software, delivering WordPress CMS training, and managing domain configurations.
- Revamped the company's core website, optimized cloud network security by migrating legacy DNS records to Cloudflare, and compiled and launched the company's mobile application on Google Play Store.
- Developed, designed, and launched responsive landing pages for 10+ hotel partners, seamlessly integrating them with the company's internal booking and analytics systems.

PROJECTS

ShopSmart — a Malaysian grocery basket optimizer (github.com/dehkai/ShopSmart)

Jun 2026

42 Malaysia K-Youth Development Programme

Technical Skills: Python, Pandas, SQL, FastAPI, SQLite, LLM, RapidFuzz, REST APIs, Pydantic.

- An intelligent price-comparison platform that interprets casual everyday grocery lists and gets the cheapest store to shop.
- Engineered the backend architecture, designing REST APIs to parse natural-language grocery lists into structured queries against the government's database, and developed core server-side logic implementing a Large Language Model workflow paired with a fuzzy logic fallback system for robust text interpretation and data matching.

Location-based Clustering to Identify Commuting Routes in Southeast Asia

Jul 2024 - Jan 2025

Master of Data Science

Technical Skills: Python, NumPy, Pandas, Scikit-Learn, Clustering Algorithms, GeoPandas, SciPy, Matplotlib, Folium, Streamlit.

- A trajectory-based research uncovering frequent commuting routes and spatial mobility trends across 2 Southeast Asian cities.
- Extracted and processed massive e-hailing service datasets using Python, engineered features to distinguish regular from irregular travel patterns and executed trajectory clustering algorithms alongside cluster quality evaluations to deliver data-driven insights for urban planning and public transit optimization.

e-Hostel @ USM — for your on-campus hostel needs

Sep - Dec 2019

Bachelor in Computer Science

Technical Skills: HTML5, CSS, JavaScript, Firebase, Hardware Integration, QR Code Systems.

- A semester-break storage web application digitizing manual intake processes and enabling self-service student transactions.
- Engineered responsive frontend layouts using HTML5, CSS, and JavaScript, configured the database infrastructure on Firebase, and integrated QR code systems for digital payments/key returns and implemented physical barcode scanner hardware integration for rapid inventory logging.

EDUCATION

Master of Data Science — <i>Coursework</i> <i>Universiti Malaya (UM)</i> CGPA of 3.85	2023 - 2025
Bachelor in Computer Science (Hons.) — <i>Specialization in Intelligent Systems, Minor in Mathematics</i> <i>Universiti Sains Malaysia (USM)</i> CGPA of 3.34	2017 - 2021
Matriculation Programme — <i>Science Stream, Module III</i> <i>Kolej Matrikulasi Pulau Pinang (KMPP)</i> CGPA of 3.96	2016 - 2017

AWARDS & CERTIFICATIONS

- Getting Started with Cortex Code, *Snowflake Developers* (2026)
 - From Zero to Agents: Building End-To-End Data Pipelines for an AI Agent, *Snowflake Developers* (2026)
 - Creating Declarative Data Pipelines with Dynamic Tables, *Snowflake Developers* (2026)
 - Data Ingestion, Transformation, and Delivery with Snowflake, *Snowflake Developers* (2026)
 - Claude 101 & Claude Code 101, *DataCamp* (2026)
 - Gemini Nexus: The Agentverse Bootcamp & Hackathon, *Google Developer Groups UTM* (2026)
 - Machine Learning Fundamentals with Python, *DataCamp* (2024)
 - Introduction to Data Warehouse, *DataCamp* (2024)
 - Dean's List, *School of Computer Science, USM* (2020, 2021)
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TRAINING PROGRAMS

42 Malaysia K-Youth Development Programme <i>Khazanah Nasional Berhad & Sunway FutureX DI</i>	May - Jun 2026
• Engineered a fully automated, end-to-end data engineering pipeline using a custom command-line interface (CLI) tool designed to extract, clean, and validate raw unformatted data before storing it systematically into a structured SQLite relational database. • Developed the core AI decision-making module and business logic layer for a predictive skill gap detection system. • Collaborated closely with a peer to merge the robust ETL pipeline and AI decision-making engine into a fully operational application containerized with Docker and served efficiently via FastAPI.	
SAINSeD Professional Excellence Program <i>Collaborative Research in Engineering, Science and Technology (CREST)</i>	Feb - Mar 2022
• Built highly interactive, end-to-end enterprise dashboards utilizing advanced DAX functions and robust data modeling techniques to transform disparate, complex data structures into actionable business intelligence for strategic decision-making. • Developed Python-based predictive machine learning models by executing extensive feature engineering, data preprocessing, and rigorous model evaluation metrics on large-scale, real-world datasets to ensure accurate forecasting. • Partnered actively within diverse, interdisciplinary teams under direct mentorship from industry experts to tackle complex business challenges and deliver high-impact data storytelling presentations to key stakeholders.	

REFERENCES

Prof. Dr. Nor Liyana Mohd Shuib — *Professor, Faculty of Computer Science and Information Technology, UM*
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