Habiba Hassan

Computer Science | Data Science

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PROFILE

Final Year Computer Science student specializing in Data Science with a strong academic record (CGPA 3.83, Dean's List every semester to date). Possesses a strong foundation in Python, Machine Learning, NLP, and full-stack development, demonstrated through building and deploying multiple end-to-end projects. Co-authored an AI research paper on diagnostics (under review). Actively seeking internship opportunities in Data, AI, or Software Development to apply technical skills to real-world solutions.

SKILLS

Technical Skills

- **Programming:** Python, SQL, Java
- **Data Science & AI:** Exploratory Data Analysis (EDA), Data Cleaning & Preprocessing, Feature Engineering, Machine Learning, Deep Learning, NLP, Explainable AI (SHAP/LIME), TensorFlow, Keras, PyTorch, Pandas, NumPy, Scikit-learn, Matplotlib, OpenCV, NLTK
- **Web & Backend:** Django, Flask, React, JavaScript, HTML/CSS, Streamlit
- **Databases:** MySQL, PostgreSQL, SQLite
- **Tools:** Git, GitHub, Jupyter Notebook, Google Cloud Platform (GCP), Agile / SDLC

Soft Skills

Teamwork • Problem-Solving • Communication • Time Management

EDUCATION

Albukhary International University   *Alor Setar, Kedah | November 2023 – December 2026 (Expected)*

Bachelor of Computer Science (Hons.) — Specialization in Data Science

CGPA: 3.83 / 4.00 **| Honors:** Dean's List every semester to date

Relevant Coursework: Software Engineering, Data Structures & Algorithms, Object Oriented Programming, Database Systems, Cloud Computing, Machine Learning, Deep Learning, NLP, Data Mining and Analytics, Artificial Intelligence, Probability & Statistics, Discrete mathematics

PROJECTS

AIU Smart Feedback System with NLP Analytics (FYP)   *August 2025 – Present*

• *Python, Django, React, PostgreSQL, NLP*
• Designed and implemented a system following software engineering lifecycle principles, including requirements analysis, modular design, and iterative development, replacing manual workflows for CDAE at AIU with an automated, role-based dashboard system for students, lecturers, deans, and administrators.
• Integrated NLP analytics (sentiment analysis, topic modeling, summarization) to extract insights from feedback and support academic decision-making.

AI for Early Diagnosis of Breast Cancer with Explainable AI (XAI)   *March 2025 – October 2025*

- Python, Scikit-learn, SHAP, LIME | [Live App](#)
- Developed a high-performance Random Forest model (**97% accuracy**) and applied SHAP & LIME to address the "black box" problem by producing interpretable explanations.
- Co-authored an **AI research paper** on explainable diagnostics, currently **under journal review**.

Customer Analytics with Machine Learning   *May 2025 – July 2025*

- *Python, Scikit-learn, PCA, K-Means, Streamlit*
- Built end-to-end ML pipelines for [**customer churn prediction**](#) and [**customer segmentation**](#) using Telco and E-Commerce datasets, applying RFECV, PCA (95% variance → 22 components), and K-Means clustering.
- Deployed two interactive Streamlit applications for real-time churn prediction and customer segment exploration, including insights visualization and business recommendations.

EXPERIENCE AND VOLUNTEERING ACTIVITIES

Somali Students Community, AIU | Vice President   *Alor Setar, Kedah | May 2025 – Present*

- Co-led community operations and organized major cultural and academic events to support Somali students and enhance campus engagement.

AFSA Association, AIU | Head of Education Department   *Alor Setar, Kedah | Jan 2025 – Dec 2025*

- Designed and coordinated academic initiatives including workshops, debates, and IELTS programs improving learning outcomes for African students.

PEERS Club, AIU | Peer Counselor   *Alor Setar, Kedah | May 2025 – Present*

- Supported student well-being through peer counseling and delivered campus activities aimed at improving mental health and student life experience.

CodeAlpha | Frontend Development Intern   *Remote | Dec 2024 – Jan 2025*

- Built four frontend applications (gallery, music player, calculator, portfolio) using HTML, CSS, and JavaScript while completing all tasks ahead of schedule.

AIU | English Language Support Facilitator   *Alor Setar, Kedah | Oct 2023 – Nov 2023*

- Facilitated group activities and learning sessions for pre-university students to strengthen English readiness for their first academic semester.

CERTIFICATES

AWS Academy: Generative AI Foundations | Google Cloud Computing Foundations | Python Pro Bootcamp: 100 Days of Code | Microsoft & LinkedIn: Career Essentials in Data Analysis | Django REST Bootcamp (AIU School of Computing) | Applied Data Science with Python (Simplilearn)

AWARDS AND KEY ACHIEVEMENTS

- **Albukhary International University full bachelor's degree Scholarship** (Academic Excellence).
- Consistently recognized on the **Dean's List** for academic performance (every semester to date).

LANGUAGES

Arabic (Native) | **Somali** (Native) | **English** (Fluent) | **Turkish** (Intermediate)