

# ABDIRAHMAN IBRAHIM OSMAN

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## OBJECTIVE

Motivated Computer Science student specializing in Data Science and Full Stack Development, with practical experience in machine learning, data analysis, database management, and web/system development. Skilled in building data-driven solutions, analyzing datasets for insights, and developing scalable applications that improve user experience and performance. Passionate about applying AI and data-driven problem solving to create intelligent, impactful, and efficient digital solutions.

## PROJECTS & EXPERIENCE

### Nation Wide Centralized Blood Bank System | August 2025 – February 2026

- Designed a scalable and intuitive system architecture to enhance accessibility and streamline donor, hospital, and admin interactions.
- Developing a centralized blood bank platform with a comprehensive database, secure user roles, and full backend functionality for donor, inventory, and request management.
- Implemented intelligent blood inventory tracking with automated status updates, expiry monitoring, and trigger-based workflow handling.
- Building a responsive web interface to support donor appointments, hospital requests, and smooth navigation across all system modules.

### aiu-somali-students-hub (<https://aiu-somali-students-hub.vercel.app>) (July 2025-Dec 2025)

- Developed a full-stack web platform using React.js, Tailwind CSS, PHP, and MySQL, delivering secure and efficient data-driven functionality.
- Built a robust finance module supporting monthly collections, payments, loan approvals, rejections, and print-ready financial summaries.
- Implemented a comprehensive student voting system with candidate management, role-based access control, and real-time result tracking.
- Designed a clean, responsive, and intuitive admin dashboard UI, enhancing usability across finance, elections, and community management features.

### Developed Sales Prediction and Product Clustering System using Python and machine Learning (April 2025)

- Built an end-to-end system to predict E-commerce sales using ML models like Random Forest and XGBoost for accurate demand forecasting.
- Applied K-Means and Hierarchical Clustering to identify meaningful product groups based on attributes and sales patterns.
- Developed a full pipeline for data preprocessing, feature engineering, model training, and evaluation using Python and Scikit-learn.
- Produced actionable insights through sales predictions and product clusters, improving inventory planning, pricing, and marketing strategies.

### Developed Market Basket Analytics for Personalized Recommendations (Sept2025)

- Analyzed transaction data using Python to uncover customer purchasing patterns through Market Basket Analysis.
- Developed a recommendation system to deliver personalized product suggestions and enhance marketing strategies.

## EDUCATION (Oct 2023 - Dec 2026)

### Bachelor of Computer Science (Honours)

- Albukhary International University, Malaysia | CGPA: 3.54 | October 2023 - Present

## ADDITIONAL INFORMATION

### TECHNICAL SKILLS

- **Languages & Frameworks:** HTML, CSS, JavaScript, PHP, Python, SQL, MySQL,
- **Tools & Platforms:** Git, VS Code, Jupyter Notebook, Anaconda, GitHub, and Excel, Data Annotation tools.
- **Other Skills:** Responsive Design, Data Visualization, Machine Learning, Data Analysis,
- **Languages:** English, Arabic, Somali.

**SOFT SKILLS :** Communication skills, attention to detail, time management, problem-solving, and adaptability.

## References

### Assoc. Prof. Basheer Riskhan

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### Prof. Dr. Khalid Hussain

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