**Edeal Aschalew**

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**Education**

**Addis Ababa University Expected Graduation: June 2027**

*Bachelor of Science in Information Systems* |**GPA: 3.89 / 4.0**

* Courses: *Data Structures and Algorithms, Information Storage and Retrieval, Advanced Database Systems, Object Oriented Programming, Advanced Programming, Discrete Mathematics, Applied Mathematics*

**Projects**

**Roha Events – Event Discovery & Management Platform | [Source Code](https://github.com/edealasc/Kuriftu-Team-Roha)**

* Won 2nd Place at Google Developers Hackathon 2024.
* Built a recommendation system + AI assistant that suggested events based on user preferences.
* Integrated JWT-based authentication for secure event booking and user profiles.
* Tech: Python, Django, PostgreSQL, Next.js.

**Shemeta – AI-Powered Crop Recommendation & Marketplace | [Source Code](https://github.com/edealasc/sebil_finance)**

* Won 2nd Place at Reboot the Earth 2025 (FAO & Ministry of Innovation).
* Designed a prototype ML model combining satellite imagery + market price data to generate localized crop suggestions for more than 15,000 kebeles.
* Built a marketplace feature so farmers also have direct access to buyers after harvest.
* Implemented multilingual support (Amharic, Oromo, Tigrinya) for accessibility with an API that could integrate with SMS platforms.
* Tech: Django, SQLite, Next.js, TensorFlow.

**DelalaAI – AI-Powered Real Estate Search Assistant | [Source Code](https://github.com/edealasc/delala-ai)**

* Created a property search assistant for Addis Ababa’s rental market.
* Integrated an AI model for semantic search + ranking, helping users filter listings more efficiently.
* Designed a filtering system (budget, location, property type) to customize results.
* Scraped 1,000+ property listings to build the initial dataset from various local sources..
* Reduced average search time by ~40% in prototype trials.
* Backend: Flask, Frontend: Next.js, Database: MongoDB.

**Leadership Experince**

**Volunteer Instructor April 2022 - February 2023**

* Taught basic computer programming with python for 100+ totalhigh school students at Edon Academy.
* Conducted bi-weekly workshops and engagning coding challenges to explain complex concepts.

**Technical Skills**

**Languages:** Java, Python, Javascript, Typescript, C++, SQL, HTML, CSS

**Developer Tools:** Docker, Postman, Git, Postman, Selenium, Supabase, Jupyter Notebook

**Libraies / Frameworks:** React, NextJS, Djagno, Flask, PostgreSQL, Tensorflow, PyTorch, LangChain, CrewAI