ELHASSAN AHMAD ABDELHAFEZ ELBORAEY

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EDUCATION

Minerva University   **San Francisco, CA**
Majors: Computer Science (Artificial Intelligence) and Business Administration (Brand Management)   *May 2026*
- **GPA: 3.5/4**
- **Relevant Courses:** Descriptive & Inferential Statistics, Intro To Deep Learning, Data Structures & Algorithm, Intro to Software Engineering, Probability & Statistics & Modeling.

PROFESSIONAL EXPERIENCE

Minerva Project   **San Francisco, CA (Remote)**
Machine Learning Engineer Intern   *May 2024 – Present*
- Developed AI-driven models using K-means clustering and Latent Dirichlet Allocation (LDA) to analyze over 15 datasets, improving the accuracy of admissions decisions by 20% and reducing manual review time by 35%.
- Built an integrity check system to detect duplicate applications, reducing fraudulent entries by 25% and saving 100 hours annually.
- Optimized SQL queries for large-scale data extraction and analysis, leading to a 15% increase in processing efficiency and offering data-driven recommendations to streamline the admissions workflow.

Expatrio   **Berlin, Germany**
Software Engineer Intern   *Jan. 2024 – April 2024*
- Engineered a course recommendation engine using NLP and vector embeddings (Google's gemma-7b-it and VoyageAI), improving matching accuracy by 50% and boosting student enrollments by 25% within three months.
- Designed and implemented a dynamic search interface with real-time course updates, leading to a 30% increase in user satisfaction and a smoother user experience.
- Developed backend architecture for scalable data processing, achieving a 40% improvement in platform responsiveness and optimizing chatbot response time by 20% for seamless integration with MongoDB.

Infniyx Co.   **Seoul, South Korea**
Software Engineer Intern   *Sep. 2023 – Dec. 2023*
- Designed and deployed a speech-to-text solution using OpenAI's Whisper API and AWS Transcription, increasing speech recognition accuracy by 50% for a dementia prevention AI app.
- Developed data pipelines and APIs to handle user data securely and efficiently, driving a 35% increase in user engagement.
- Applied Python-based machine learning techniques to analyze user interactions, contributing to a 40% increase in user adoption among Japanese and Korean seniors within the first two months of launch.

Mobalytics   **San Francisco, CA (Remote)**
Data Analyst Intern   *Jan. 2024 – April 2024*
- Analyzed gameplay data from leading battle royale titles (PUBG, DayZ, Fortnite: STW) using Python and SQL, identifying 5 key areas for product enhancements, leading to a 15% increase in user engagement.
- Utilized data scraping techniques and natural language processing (NLP) to extract community insights from 10+ Discord channels, uncovering an untapped market segment.

PROJECTS

ATQ - AfricAIED: Python (Flask, Transformers), JavaScript, Reactjs, MongoDB, NLP   *May 2024 - June 2024*
- Implemented an adaptive learning algorithm that adjusts question difficulty based on user performance, resulting in a 25% improvement in quiz scores and a 40% increase in student engagement.
- Optimized server-side performance using Flask and MongoDB, reducing response times by 20% and ensuring seamless integration with the frontend built in React.js.

Study Finder Chatbot(Expatrio): Python (Flask, Transformers), JavaScript, Reactjs, MongoDB, NLP   *Jan. 2024 – Apr. 2024*
- Developed a Study Finder Chatbot using NLP and vector embeddings to provide personalized course recommendations, improving user satisfaction and enrollment rates

SKILLS & INTERESTS

Programming Languages: Python, JavaScript, SQL, HTML, CSS

Frameworks & Tools: Flask, React.js, Transformers, Pandas, NumPy, SciKit-Learn, Matplotlib, SciPy, Git, MongoDB, PostgreSQL, NLTK, FuzzyWuzzy, AstraDB

Machine Learning: NLP, K-means Clustering, Latent Dirichlet Allocation (LDA), AI Model Deployment, Data Preprocessing, Time Series Analysis

Data Analysis: SQL, Data Wrangling, Data Visualization, Statistical Analysis