# Ahmed **Abdelhuy**

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## EDUCATION

Minia University Faculty of Engineering Computer and Systems Department
2017 - 2022

## GRADUATION PROJECT

In my graduation project we built a deep neural network to compensate for the bad GPS signal-to-noise ratio. We bypassed the current state-of-the-art by 6.5%. This task is usually referred to as cross-view geo-localization in scientific literature. My team worked on a geo-localization system based on matching a query ground image with a set of aerial images with deep learning. We created a new benchmark dataset that includes temporal context information about the ground trajectories which target our solution. We used the Google Maps Static API to collect the satellite images in our dataset. Our research paper is in the review process to get published in the MDPI's Sensors Journal. The team is mentored by Prof. Mohammed Elhenawy from QUT University.

## WORK EXPERIENCE

### Visyond                                                                                          Remote

Front-end web developer                                                         August 2021 - Sept 2021
- I created a feature to handle aligning components of presentation slides creator canvas.
- Feature to create random avatar images for those with no profile image.

### Graduation Project

Geo-localization with deep learning                                           Sept 2021 - August 2022

I worked on generating a Geo-spatial dataset for a geo-localization solution based on the temporal context of the ground level of view trajectories. Currently, I work on finding a new solution for the Geo-localization problem with cross-match based on the temporal context of the ground level of view data we generate.

## PROJECTS

### Bookish Brief                                                      React.js, Redux, Express, MySQL

Store notes about books                                                        August 2021 - Sept 2021
- List all books with brief descriptions and book information.
- Filter books based on category.

### Meetings                         JavaScript, JITSI IFrame API, SQLAlchemy, PyGitHub, sql.js-httpvfs, Auth0

Serverless meetings web app                                                    July 2021 - August 2021
- Start meetings and manage contemporary meeting rooms.
- Send meeting participants and label data to the database using the Azure function API.
- Stream the meeting on YouTube.

## SKILLS

- Python, C/C++, MATLAB/Octave, JavaScript, HTML, and CSS.
- MySQL.
- ReactJS.
- Numpy, Tensorflow, Keras, OpenCV, and Matplotlib.
- Windows, Linux, and Git.
- **Intermediate-level problem-solving.**
- **Computer Vision with deep learning solutions.**