

Ahmed Abdelhay

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🌐 <https://github.com/ahmed-abdulahuy> | 📄 [ahmed-abdulahuy-1b3688191](#) | 🐦 [@Ahmed63137030](#) | 🎓 Ahmed Abdelhay

EDUCATION

Bachelor's degree in computer engineering from Minia University Faculty of Engineering Computer and Systems Department.

Sept 2017 to May 2022

EXPERIENCE

Deep Learning Research Project, El-Minya

Minia University, September 2021-August 2022

- Optimized data pipelines for efficient ingestion of large datasets into databases.
- Researched a new solution for the geo-localization problem by doing cross-matching between ground with aerial level-of-view images achieving a 6.5% improvement over the current state-of-the-art for cross-view geo-localization.
- Used OpenCV, FFmpeg, Google Maps API, and other tools to conduct exploratory data analysis and feature engineering for BDD large datasets of ground images to create a new benchmark dataset with ground and aerial levels of view images.
- Utilized Python libraries such as TensorFlow, and PyTorch for developing a cross-matching model with a transformer.

Frontend web developer, Remote

Visyond, October 2022-Present

- Developed labeling algorithms to enhance the positioning and readability of data labels based on the chart type.
- Reduced the time complexity of the chart data series labels drawing algorithm from $O(n^2)$ to $O(n)$.
- Created features to enhance user control over charts like font resizing and data series label positioning.
- Assisted with the design of various UI elements used in web applications.
- Created interactive visualizations using libraries such as D3.js and C3.js.
- Created E2E and unit tests with the Nightwatch library.

PROJECTS

Stock Tracker

[React](#), [Rechart](#), [MaterialUi](#), [TypeScript](#)

- Show stock markets pricing, changing graph, and current price.
- Give a complete description of the selected stock with a more descriptive graph and full pricing data.

SKILLS

- Python MatLab, SQL, JavaScript, HTML5, and CSS3
- Numpy, Mathplotlib, OpenCV, and TensorFlow.
- Algebra, Linear Algebra, Calculus, probabilities, and statistics
- Datastructure and algorithms.
- React.js, Redux, JQuery, D3.js, C3.js, Nightwatch, and Node.js
- Experience working on Docker-based projects
- Linux operating systems
- Git version control system
- Experience using Kaggle notebooks.
- Good understanding of networking and routing protocols
- Understanding of software development best practices
- Embedded systems understanding
- Eager to learn
- Critical Thinking
- Team Player
- Excellent Communication
- Active Listening
- Flexible Schedule
- Problem-Solving
- Creativity
- Innovative
- Fluent in English

PUBLICATIONS

Leveraging cross-view geo-localization with ensemble learning and temporal awareness.