



AHMED ATTIA

Software Engineering Student and Kaggle Expert

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Skills

- Data science
- Machine learning
- Natural Language Processing
- Web Scraping
- Web Development
- Convolution neural networks
- Computer vision
- Object-Oriented Programming (OOP)
- Deep learning

Education History

- National Institute of Applied Science and Technology (INSAT): 2017-Present
- Baccalaureate degree in Mathematics with high honors.
- Pioneer school of Nabel: 2010 to 2017

Tools

- | | |
|----------------|--------------|
| • Pytorch | • Javascript |
| • Tensorflow | • React |
| • Keras | • Node.js |
| • OpenCV | • SQL |
| • Python | • Pandas |
| • Numpy | • C++ |
| • Sickit-learn | • PHP |
| • fastai | • html / css |
| • Scrapy | • pika |
| • git | • flask |

Volunteering Experience

- IEEE INSAT CS chapter member (2017-Present)
- Speakers Manager at CSTC (Computer Society Tech Congress) organized by IEEE in his first Edition

Experience

• Research Engineer Intern at InstaDeep (July 2020 - September 2020)

Building an automated pipeline for computer vision tasks (classification and regression) using tensorflow framework :

- Using state of the art models architectures and techniques .
- Implementing RexNet architecture based on it's official paper.
- Implementing a benchmarking module to choose the best model based on many factors(inference time , results ...)
- Ensure a wide configurability of parameters during all phases.
- Writing extensible, well documented and clean code.

• Brain Team member and instructor at Data Overflow (Nov 2019 - February 2020)

Data Overflow is a program that consists of weekly training sessions held in the National Institute of Applied Science and Technology .I presented a workshop about data preprocessing techniques.

• Team Lead- At Data Co-Lab (Aug 2019 - Present)

Data Co-Lab is the first Data Science lab for Students and Educators, aiming to empower AI culture in Tunisia, I was a member of the engineering team than I became team lead at the same department, my role consists principally at supervising projects and helping members to achieve them succesfully.

Projects

• Sudoku Solver (April 2020)

Solving sudoku with artificial intelligence given the image of the sudoku puzzle , for this project i used OpenCV to extract the puzzle grid then a CNN model to identify numbers and finally a simple algorithm to solve the puzzle

• Facial recognition (Feb 2020)

Real time facial recognition with computer webcam using pretrained facenet for recognition and mtcnn for face alignment .

• Plant Disease Classification- At Data Co-Lab (Oct 2019)

Using Convolution Neural Networks to determine the plant disease from leave images .

Language

- Arabic: native
- French: bilingual
- English: medium
- German: beginner

Certifications

Deep Learning Specialization:

- 1: Neural Networks and Deep Learning
- 2: Improving Deep Neural Networks
- 3: Structuring Machine Learning Projects
- 4: Convolutional Neural Networks
- 5: Sequence Model

Achievements

- **Kaggle Competitions Expert (December 2020)**
Becoming **Kaggle Competitions Expert** after reaching top 5% in the Mechanisms Of Action and top 8% in the Tweet Sentiment Extraction competitions. **See More**.
- **Top 20 In Zindi Platform (December 2020) :**
After winning several competitions in the zindi platform, I reached **rank 13** over more than 20000 competitors.
- **AI Hack Tunisia 2019 (20-22 Sep 2019)**
1st place in Delay Prediction Tunisair challenge of AI Hack Tunisia organised by Instadeep and Google .
- **Digital Agriculture Hackathon (28 Nov 2019)**
Second place in a Hackathon organized by Food and Agriculture Organization: proposing a system that forecast soil moisture one day before in order to schedule irrigation optimally.
- **Zimnat Insurance Hackathon by Zindi (May 2020)**
ranked 2/314 in the zimnat insurance hackathon. The goal of this challenge was to predict which insurance policies are going to lapse in 2020 from an already existing database of policies based on last 3 years data.
- **Basic Needs Basic Rights Kenya - Tech4MentalHealth competition(July 2020)**
ranked 4/492 the goal of this competition is to develop a machine learning model that classifies statements and questions expressed by university students in Kenya when speaking about the mental health challenges they struggle with.
- **Akeed Restaurant Recommendation Challenge by Zindi(September 2020)**
ranked 5/1271 The objective of this competition is to build a recommendation engine to predict what restaurants customers are most likely to order from, given the customer location, the restaurant, and the customer order history.