

# Ahmed Elmahy

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## EDUCATION

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**Institute of Graduate Studies and Research, Alexandria University**

**Alexandria, Egypt**

*Master degree in IT*

*Sep 2018-now*

**Top world universities on Coursera [1]**

*Passed 20 open Online courses about python, R and Machine learning with certificates* 2014-now

**Institute of computational biology, Helmholtz Zentrum Muenchen [2]**

**Munich, Germany**

*Paid machine learning fellowship*

*Jan 2018-July 2018*

**Faculty of Medicine, Alexandria University**

**Alexandria, Egypt**

*MD*

*Dec 2017*

## Sample PROJECTS with python

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### Natural language processing with python

Detection of changes in organizations from text using Natural language processing , named entity classifiers (Did for freelancing, skills: python, nlp, nltk).

Github repo: <https://github.com/ahmedelmahy/nlpchanges>

### Web scraping with python

Scraping sec.gov using public proxies (Did for freelancing, skills: python, web scraping, requests) and Scraping several other websites.

Github repos:

- [https://github.com/ahmedelmahy/web scraping\\_showcase](https://github.com/ahmedelmahy/web scraping_showcase)
- <https://github.com/ahmedelmahy/scraping-sec.gov>

### Web automation with python and Selenium

Worked on a project for fun to automating Facebook Posting messages, photos, videos and chatting using selenium, fb api, css selectors, xpath, etc

Github repo:

- <https://github.com/ahmedelmahy/Automating-Facebook>

### Data science and deep learning with python

Currently writing a thesis on dimension reduction and deep learning with python, scipy, keras. With advanced understanding of data science, statistics and mathematics behind several models.

### Others

Some code I wrote to bulk send my cv to many jobs <https://github.com/ahmedelmahy/Bulk-Email-Sender-with-attachment> Some code I wrote to extract academic emails from papers and spam them (Just a proof of concept not intended for real usage) <https://github.com/ahmedelmahy/jobspammer>

## Other programming languages

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### R

Six years experience with all concepts of data science and machine learning , writing efficient code, vectorization, developing packages

- An R package for feature selection with RNASeq and a web application using shiny to biologists to do classification without programming skills (The project required more than six months, so this a preliminary version, not well documented) <https://github.com/ahmedelmahy/RNASeqclassifier1>  
<https://github.com/ahmedelmahy/RNASeqClassifier>  
<https://github.com/ahmedelmahy/eczemalymphoma>

<https://alexf.shinyapps.io/progressReport/>

- Spam classifier with R using decision trees, svm, glm, gini index and many others (Did for free-lancing, skills: R, nlp, classification) <https://github.com/ahmedelmahy/spam-classifier>
- This script is written to distribute students at Faculty of medicine, Alexandria university to their electives based of their choices with priority to students with higher grades (Already used for two years now)  
<https://github.com/ahmedelmahy/elective>
- Others : advanced statistical plotting with ggplot2 <https://github.com/ahmedelmahy/ggplot2-animation> , <https://github.com/ahmedelmahy/readingTrack>

#### **Other programming languages**

- C++, Java : did a data structure and algorithms course in Java. studied object oriented design and analysis in the software engineering course.
- Javascript and react native: created two simple android apps with react native : drug magic to look up drug names with arabic [3] and the OTCs (over the counter medications) app contains a collection of pdf for cold and pain drugs that can be prescribed without a doctor [4].
- advanced knowledge of Latex, a writing system and had some experience with several other old programming paradigms such as netlogo and prolog.
- And SQL :)

## **CLINICAL AND RESEARCH EXPERIENCE**

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Although I shifted career from Medicine to software engineering, I have a long experience with medical research at the following institutes:

#### **Institute of computational biology, Helmholtz Zentrum Muenchen**

**Munich, GE**

*Computational biology Intern*

*Jan 2018 - June 2018*

- Implement feature selection and classification algorithms on gene expression data in order to find genes that can predict cancer and cancer subtypes.

#### **Alexandria University Cancer Research Cluster[5]**

**Alexandria, EG**

*Intern*

*Oct 2016 - Dec 2017*

- Participated in organizing the Egyptian Cancer Research Network network[6] which originated from our lab. It includes 16 Egyptian Universities and associations.
- Participated in the biorad project[7]. A collaboration project between our lab and the Italian national cancer institute.

#### **Egybiotech Company[8]**

**Alexandria, EG**

*Research assistant*

*Oct 2016 - Dec 2017*

- Participated in a study to validate serum biomarkers for liver cancer funded by Oncimmune, UK
- Maintained a database for the project

#### **High institute of Public health, Alexandria University**

**Alexandria, EG**

*Trainee*

*Nov. 2015- Jan 2016*

- Training with Dr. Shehata Farag in biostatistics.

#### **Health behaviors among Egyptian sexual minorities**

*2015 – 2016*

- Also out of curiosity, I was interested in exploring the sexual minorities community in Egypt, but later I did a research project and publish a paper on that [11].

## **Awards**

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- Carl Duisberg Fellowship from Bayer Foundation[9] to conduct research in Germany.
- Travel bursary to the course CSAMA 2018. This bursary is being sponsored by the training programme of the European Commission's Horizon 2020 SOUND project (<http://www.sound-biomed.eu>).

## ADDITIONAL

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- I am a professional translator with a published book called Icons of Evolution [10]
- I speak good German.
- I am open-minded with social personality and hard worker, seriously.
- I attended several meetups about enterprenership in Egypt and Germany and applied for fund before in Netherlands and so much into innovating new stuff.

## Links and References

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- [1] <https://ahmedelmahy.github.io/8%20-%20M00Cs.html>.
- [2] <https://www.helmholtz-muenchen.de/icb/index.html>.
- [3] <https://play.google.com/store/apps/details?id=com.drugmagic>.
- [4] <https://play.google.com/store/apps/details?id=com.otc>.
- [5] <http://www.aucerc.com/>.
- [6] <http://egycrn.net/>.
- [7] <http://www.nato-biorad.org/en/>.
- [8] <http://egybiotech.com/>.
- [9] <https://ahmedelmahy.github.io/1-%20Carl%20Duisberg%20Fellowship.html>.
- [10] [https://books.google.com.eg/books/about/%D8%A3%D9%8A%D9%82%D9%88%D9%86%D8%A7%D8%AA\\_%D8%A7%D9%84%D8%AA%D8%B7%D9%88%D8%B1.html?id=Wi9\\_DQAAQBAJ&hl=en&redir\\_esc=y](https://books.google.com.eg/books/about/%D8%A3%D9%8A%D9%82%D9%88%D9%86%D8%A7%D8%AA_%D8%A7%D9%84%D8%AA%D8%B7%D9%88%D8%B1.html?id=Wi9_DQAAQBAJ&hl=en&redir_esc=y).
- [11] Ahmed Gamal Elmahy. Reaching egyptian gays using social media: A comprehensive health study and a framework for future research. *Journal of homosexuality*, pages 1–10, 2017.



### Cover letter :)

Dear Madam/ Sir,

I am 26 years old with 5 years experience with software development. Even though I changed career from Medicine to IT, I still have this smart and stressful lifestyle. I am super fast at learning new concepts, I guarantee that and you can test it. Also, I am very fine with any form of testing before hiring me.

Thank you for reading,  
Ahmed Elmahy