

# Mahmoud Kasem

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## Skills

- Data Science:
    - Machine and Deep Learning, Computer Vision, NLP
  - Programming Languages
    - C, C++, C#, Java, Python
  - Web
    - HTML, CSS, PHP , JavaScript
  - Tools
    - Visual Studio, NetBeans, Anaconda, Pycharm, Jupyter notebook
  - Package
    - TensorFlow, Keras, Pytorch
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## Education

- Ph.D candidate at Information and Communication Engineering  
Chungbuk National University Sept. 2023 – up to now
  - Master of Science: Data Science and Machine Learning  
Faculty of Information and Telecommunication Technologies –Satbayev University June 2022
  - Pre-master studies, information technology department Faculty of Computers and  
Information, Assiut University June 2017
  - Bachelor of Science: Computer Science, Faculty of computer and information,  
Assiut University June 2016
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## Experience

- Teaching and Research Assistant May 2017-up to now
    - Multimedia Department, Assiut University, Assiut, Egypt
  - Machine Learning Researcher Sep 2020 to June 2022
    - National Open Research Laboratory for Information and Space Technologies –  
Satbayev University, Almaty, Kazakhstan
  - Android Developer at Xware Inc 2017
    - A freelance developer for one month in a project called RedCap looks like Uber.
  - Android Developer at Zewel center 2018
    - A freelance developer in a project that registers students for courses was done from scratch.
  - Android Developer at ETS University, Quebec, Montreal, Canada 2019
    - A freelance developer in a project that Report for Incidents in a particular location was done from scratch
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## Certifications

- Neural Networks and Deep Learning from Coursera
  - Convolutional Neural Networks from Coursera
  - Deep Learning Specialization from Coursera
  - Mathematics for Machine Learning Specialization from Coursera
  - Big Data Integration and Processing from Coursera
  - Natural Language Processing with Probabilistic Models from Coursera
  - Natural Language Processing with Classification and Vector Spaces from Coursera
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## Publications

- Deep learning for table detection and structure recognition: A survey [ACM Computing Surveys](#)
- Customer profiling, segmentation, and sales prediction using AI in direct marketing [Neural Computing and Applications](#)
- KOHTD: Kazakh Offline Handwritten Text Dataset. In [Signal Processing: Image Communication](#)
- Automated Question-Answer Medical Model based on Deep Learning Technology. In [ICEMIS'20](#).
- Network Estimation Model to Optimize Timing and Schedule of Software Projects. In [IEEE CONFERENCE](#)
- AE-LSTM: Autoencoder with LSTM-Based Intrusion Detection in IoT. In [IEEE CONFERENCE](#)

- Advancements and Challenges in Arabic Optical Character Recognition: A Comprehensive Survey.  
<https://arxiv.org/abs/2312.11812>
  - ArabicaQA: A Comprehensive Dataset for Arabic Question Answering.( Accepted at SIGIR 2024)  
<https://arxiv.org/abs/2403.17848>
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## Projects

- KOHTD: Kazakh offline handwritten text dataset 2022
  - Automated Question-Answer Medical Model based on Deep Learning Technology 2020
  - (Arkhas-hom): June 2016
    - Summary: Android and Website that allow people to share the products that have a big sale to each other.
    - Role: Team Leader and Android developer
    - Technologies: Android and Website
  - E-commerce Project: May 2016
    - Summary: Website that doing the same functionality of Souq.com or Jumia.com
    - Role: Web Developer
    - Technologies: Website
  - Computer Consultation Center: April-May 2016
    - Summary: Desktop application used to register the students to the courses electronically
    - Role: Team Leader and Desktop developer
    - Technologies: C#
  - Best Doctors: June 2017
    - Summary: Android System used to Finding a Doctor and book an appointment with him.
    - Role: Supervisor
    - Technologies: Android
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## Societies and Volunteering Work

- 2013 – 2014 Member of IEEE: organize events in the college like welcoming students
  - 2015 – 2016 Member of ACM Assiut Student Chapter: organize events like “Tech-ex”
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## Language

- Arabic: Native
- English: Fluent