

# Haq Nawaz

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## CAREER OBJECTIVE

I am passionate about programming, playing with data is my hobby, I love teaching. Making things, processes intelligent and convenient is my ultimate goal.



## Education

- **Phd Computer Science.** Enrolled COMSAT University Islamabad Lahore Campus.
- **MSCS.** University of Central Punjab, Lahore, Pakistan.
- **شهادة العالمية M.A Arabic / Islamic studies** Jamia Ashrafia Lahore, Pakistan.



## Skills

- **Programming /Scripting Languages**
  - Java, Python, C#, ASP.net, JavaScript, C++
- **Databases**
  - SQL Server, MySQL,
- **Collaboration**
  - Git, GitHub, GitLab, VS Team Services
- **Machine/Deep Learning/Data Science**
  - TensorFlow, NLP, SPacy, NLTK, Pytorch, Word embedding, RNN, LSTM
- **Cloud Platforms**
  - Google Cloud Platform, Microsoft Azure, Google Firebase, Amazon WebServices



## Professional Courses

- **Natural Language Processing in TensorFlow** an online non-credit course authorized by DeepLearning.AI and offered through **Coursera**.
- **Introduction to Data Science in Python** Online authorized by **DataCamp**.



## Teaching

- Programming fundamentals, Android Development, Web Engineering **Punjab University College of Information Technology**
- Programming fundamentals, OOP **Beaconhouse National University**
- Programming fundamentals, Web Designing Mobile Computing **ISDP**
- Quran Translation, Arabic Morphology, Islamic Fiqh, English Language **Jamia Ashrafia**
- Islamic Studies **Superior University**



## Awards

- Software Competition winner **NaSCon 2019** FAST-National University of Computer & Emerging Sciences (FAST-NUCES)
- Software Competition winner **Brainiac 2018** 20th - 21st December 2018 University of Engineering & Technology Lahore
- Quranthon first international hackathon of Quran qualify top 13 out of more than 1000 ideas



## Languages

- Urdu Native
- English Business fluent
- Arabic Intermediate



## International Conferences and Journal Research Papers

Arabic natural language processing for Qur'anic research: a systematic review Muhammad Huzaifa Bashir, Aqil M. Azmi, Haq Nawaz, Wajdi Zaghoulani, Mona Diab, Ala Al-Fuqaha & Junaid Qadir  
<https://link.springer.com/article/10.1007/s10462-022-10313-2>

Ahmed Wasfey Sleem, Eman Mohammed lotfy Elrefai, Marwa Mohammed Matar and Haq Nawaz. Stars at Qur'an QA 2022: Building Automatic Extractive Question Answering Systems for the Holy Qur'an with Transformer Models and Releasing a New Dataset. Qur'an QA 2022 Shared Task! Answering Questions on the Holy Qur'an @ OSACT 2022 Workshop, LREC 2022 M arseille, France, 20th June 2022

"التصريف" Classical Arabic Conjugation Android Application for Android 8th International Conference on Islamic Applications in Computer Science and Technologies (IMAN 2020) 26 – 27 December 2020 Online

"SENTIMENTAL ANALYSIS OF SOCIAL MEDIA TO FIND OUT CUSTOMER OPINION." International Conference on Intelligent Technologies and Applications INTAP 2018 October 23–25, 2018 | Bahawalpur, Pakistan. <https://www.springer.com/gp/book/9789811360510>

"DEVELOPMENT OF ARTIFICIAL INTELLIGENCE BASE SYSTEM FOR TEACHING CLASSICAL ARABIC & QUR'ANIC VOCABULARIES FOR URDU LANGUAGE USERS" Vol 10 No 1 (2018): QURANICA - International Journal of Quranic Research Volume 10, Number 1 (June 2018) Published: 2018-06-26. <https://ejournal.um.edu.my/index.php/quranica/article/view/12108>

"DATA SET GENERATION FOR THE ATTRIBUTES OF THE WORDS OF THE HOLY QURAN: INFORMATION RETRIEVAL SYSTEM FOR E-LEARNING" Taibah University International Conference on Advances in Information Technology for the Holy Quran and Its Sciences Al-Madinah Al-Munawwarah, Saudi Arabia 19-22 Safar(2) 1435 Hijri (22-25 December 2013)  
<https://ieeexplore.ieee.org/document/7277250>

"DEVELOPMENT AND IMPLEMENTATION OF A COMPUTATIONAL ALGORITHM TO PREDICT THE CLASSICAL ARABIC CONJUGATE PATTERN FOCUSING ON WEAK VERBS." Second Workshop on Arabic Corpus Linguistics (WACL-2) Workshop in conjunction with the Corpus Linguistics 2013 conference Monday 22nd July 2013 – Lancaster University, UK <http://ucrel.lancs.ac.uk/cl2013/wacl2.php>



## Portfolio

- **Intensive Software Development Program (ISDP)**
  - A course designed for Madrasah graduates a one-year course in which they are taught computer science subjects like programming fundamentals, Web designing and Android development. Madaris graduates after completing this course are now working in different software houses Success stories can be seen at following link.
    - <http://www.isdp.info/students-in-field2.php>
- **Algorithm base automated Classical Arabic morphology teaching system (R&D work in personal capacity)**
  - NLP techniques applied on system which generates the Arabic conjugations with the help of rule base approach, algorithm, take root words as input and generates the conjugations with the help of algorithms.
    - <https://asltasreef.netlify.app//>

- **Natural Language Processing techniques applied on Quran Text (R&D work in personal capacity)**
  - Text segmentation, Part-of-Speech Tagging and generation of dataset of Quran text for Indo-Pak Uthmani scripting with marking of 23 attributes per word more than 80,000 words has been marked. Attributes marked in three languages Arabic, English and Urdu total marked attributes more than 5.4 million.
    - Urdu
      - <http://haqnawaz.org/Ur/QuranSarfNahaw/qm>
    - English
      - <http://haqnawaz.org/En/QuranMorphology/QM>
- **Hadith Encyclopedia with Urdu translations**
  - Largest Urdu online encyclopedia of Hadith text provide facilities to user to navigate by books, chapters and Hadith number, it also contains different international numbering systems of Hadith. Apart from string search there are different marked searches implemented in project to facilitate user in searching of Hadith.
    - <https://www.mohaddis.com/View/Sahi-Bukhari/T2/1>
- **Content Digitization of Tanzeem Islami**
  - Inpage data converted to unicode. Development of tools to solve inpage to Unicode issues, development of marking software and finally web application of Urdu Unicode library for Tanzeem Islami.
    - <http://tanzeemdigitallibrary.com/>
- **Easy Quran wa Hadees**
  - First and largest Unicode desktop application of Quran and Hadith which contains different Quran translations and Tafaseer and in different languages It also contains Hadith data with translations.
    - <http://www.easyquranwahadees.com/>



## Android Apps

### My Android Developer Page

- <https://play.google.com/store/apps/dev?id=6736322182107245849>
- **Altasreef (Arabic Conjugations for Urdu users, Award Winning App)**
  - <https://play.google.com/store/apps/details?id=com.islamiculoom.tasreefapp>
- **Mufridat ul Quran**
  - <https://play.google.com/store/apps/details?id=com.cacpak.mufridatulquran>
- **The Noble Quran**
  - <https://play.google.com/store/apps/details?id=com.maktaba.maarif.quran>
- **Tauzehul Quran (Urdu) translation by Mufti Taqi Usmani**
  - <https://play.google.com/store/apps/details?id=com.asantarjuma>
- **Tazkir Ul Quran (5 Languages) Quran App with translations in 5 languages including Urdu, English, Sindhi, Pushto and Hindi**
  - <https://play.google.com/store/apps/details?id=tazkeerul.quran>