Abdullah Albanyan, Ph.D. student, Artificial Intelligence researcher

I am a Ph.D. student in the Computer Science and Engineering Department at University of North Texas. My research interests include natural language processing, computational linguistics, information retrieval, and in particular, sentiment analysis and opinion mining on social media platforms.

- **Academic Formation**

    - 2019 - 2023
        - Ph.D. in Computer Science, Artificial Intelligence | Natural Language Processing, University of North Texas, Denton, Texas, United States
            - GPA: 4.00 out of 4.00

    - 2012 – 2014
        - Master's degree in Software Engineering, Southern Methodist University, Dallas, Texas, United States
            - GPA: 3.87 out of 4.00

    - 2004 – 2009
        - Bachelor's degree in information system, College of Computer Science & Information, King Saud University, Riyadh, Saudi Arabia
            - GPA: 3.70 out of 5.00

- **Experience**
    - 06/2008 – 09/2008
        - Trainee at SABIC (Saudi Basic Industries Corporation, IT Department), Aljubail, Saudi Arabia

    - 06/2009 – Present
        - A faculty member in Software Engineering Department, College of Computer Science at Prince Sattam bin Abdulaziz University, Al Kharj, Saudi Arabia
            - 06/2009 – 05/2014: Demonstrator, Software Engineering Department
            - 05/2014 _ Present: Lecturer, Software Engineering Department

- **Interests**
    - Social Computing
    - Natural Language Processing
    - Deep Learning

Projects:

Artificial Intelligence Projects:

NLP:
Protecting public figures from haters: Our study is mainly concerned with hatefulness directed to individuals (i.e. hateful tweets), and counter hate arguments which directly address the central aspects of the hate speech. We focus on the individuals for who they are and not for being a member of a specific hated group since hateful tweets led to many disastrous incidents and badly influenced the mental health of a handful of celebrities.

Pinpointing Fine-Grained Relationships between Hateful Tweets and Replies (AAAI-22)
- The standard approach to fight offensive content is by removing or blocking accounts. However, there is a possibility that all the replies for the removed hateful content are positive, which may positively affect the reader's view about the victim of the hateful tweet. Therefore, it is beneficial to investigate the relationship between hateful tweets and replies. In this work, we analyze the fine-grained relationships between them by indicating whether the reply (a) is hate or counter hate speech, (b) provides a justification, (c) attacks the author of the tweet, and (d) adds additional hate.
The project was completed, published, and presented at AAAI-22 (AAAI-22 acceptance rate was 15%).

Image Processing:
- **Deep Tumor Track Network:** It has been drawn to our attention that the current physicians do not have an accurate tumor tracker than their natural sense. This may cause fatigue among physicians that may provide inaccurate results. Patients may also experience over-delivery of radiation to unwanted areas to radiation, which could possibly extend unnecessarily long therapy sessions. The availability of advanced technologies to get the accurate position of tumors will allow physicians to reduce their fatigue while helping patients to reduce their recovery time and thus lower the medical costs for their treatment. This paper proposed a novel system for real-time tumor tracking on video using deep neural networks.

- **Document Boundary:** Building an intelligent system that helps scan an enormous number of documents. The model reads overlapped documents and then divides them into separate files, using novel techniques to build an intelligent model. The model separates the documents by detecting the last page of each file within the whole document. This system can help employees be time-consuming in arranging or collecting overlapping documents.

- **Software Engineering Projects:**
  o Power Rationalization System: the idea of this project is to decrease the use of energy by using technical tools and gives some suggestions to decrease this consumption.
  o Automated Alarm System: the task in this project is to prepare functional and non-functional requirements with UML diagrams. Additionally, a list of different types of requirements of this system is included.
  o Online Room Reservation System: performed white box and black box testing using testing techniques such as data flow, control flow, and finite state machine.
  o Health Care Web Application: the main point of this project is to apply some user interface design concepts and prepare the user interface design document.

- **Objectives:** يبي لها تعديل
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- **Honors And Awards**

  o The Ideal Faculty Member for the Year (2015-2016) at the level of the college of computer engineering and sciences, Prince Sattam bin Abdulaziz University
  o Certificate from the Vice-Rector of Educational and Academic Affairs inaugurated the Learning Resources Center for the excellent performance (2016)

- **publications:**

- **Responsibilities**
  - Supervisor of the cooperative training unit.
  - Supervisor of student activities committee.
  - Coordinator of alumni committee.
  - Coordinator of scholarships committee.
  - To provide academic advising to assigned students.
  - Representative of the training unit at Prince Sattam bin Abdulaziz University
  - Representative of the alumni unit at Prince Sattam bin Abdulaziz University.

- **Official Certificates**
  - Fundamental Software Engineering, from Southern Methodist University, Dallas, Texas, United States.
  - Software Engineering Design, from Southern Methodist University, Dallas, Texas, United States.
  - CME-1 (Capital Marketing Examination), from Capital Markets Authority of Saudi Arabia.

- **Personal Profile**
  - Fast learner
  - Teaching skills
  - Flexible, enthusiastic, motivated, team-oriented
  - Technical skills

- **Workshops**
  - Learning Outcomes & Tests Matrix
  - Workshop about design electronic courses
  - Educational Output Assessment System for the College Programs
  - Workshop about using blackboard in teaching
  - GITEX TECHNOLOGY EXHIBITION in Dubai & Riyadh
  - Information security workshop in KSU, Riyadh
  - The second National Computing Colleges Conference, University of Hail

- **Languages**
  - Arabic: Native language (reading, writing & speaking)
  - English: Good reading, speaking and normal in writing

- **Different Skills**
  - Project Management.
  - Team leader.
  - Decision-maker.
  - E-Commerce.
  - Marketing.
  - Mobile Application.
  - C++.
  - Java.
  - UML.