

Atta Ullah

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About

I am a final-year master's student expected to graduate in December 2023 from Quaid-i-Azam University, Islamabad, Pakistan. Currently, I am working under the supervision of Dr. Rabeeh Ayaz Abbasi at the Social Computing Research Lab. My research area focuses on graph machine learning (GML), an emerging field with far-reaching applications in diverse industries, from drug discovery and optimization to recommendation and forecasting. I work on conspiracy source detection by considering the propagation pattern of information initiated through retweets, replies, quotes, and quote replies. I use a graph neural network to embed the propagation pattern to detect the conspiracy source.

Education

M.Phil. Computer Science

Sep. 2021-Present

- Quaid-i-Azam University, Islamabad, Pakistan
- *Dissertation*: Identifying Misinformation Spreaders on Twitter using Ego-Centric Network Embeddings
- Major Area of Study: Social Network Analysis, Graph Machine Learning
- Minor Area of Study: Artificial Intelligence

BS Computer Science

Aug. 2021

- University Of Swat
- *Dissertation*: Learning Management System

HSSC

Aug. 2017

- Government PG Jahanzeb College Saidu Sharif

Research Experience

Master Student: Quaid-i-Azam University, Islamabad

Sep. 2022 - July. 2023

Research areas: Conspiracy source detection in social networks, Graph Neural Network

Industry Experience

Full Stack Developer

Jan. 2020 - Aug. 2021

Max tech Developers

- As a Full Stack Developer, my primary role was developing both the front and back end. The back-end responsibilities included database design and implementation and developing an API for extracting data. On the front end, I was responsible for developing web applications using HTML, CSS, Bootstrap, JavaScript, and React. Additionally, I worked on Android app development using Java and XML. I used PHP, Laravel, CodeIgniter, Node.js, and Express.js in the development process.

Software Developed

- Learning Management System.
Firstly, the application functions as a student record database where administrative authorities can input the daily records of each student. This includes completed classwork, homework assignments, test and exam results, in-school moral/behavioral

activities, and physical assessment reports. Additionally, school management authorities can share vital notifications regarding upcoming school events. Secondly, our proposed application allows parents to easily monitor their children's school activities and complete records daily with a single touch, providing them the convenience of checking at their preferred time.

- Thalassemia Centers Management System. (Link to the source code)
- IT Academy Center Institute Management System (Link to the source code)
- Car Park Finder (Link to the source code)
- Blood Donor Finder (Link to the source code)
- Azad Medicine Company Supplier Order (Link to the source code)
- Commonwealth toner and ink (Link to the app)
- ZAMA SHOPS Buy & Sell Pakistan (Link to the app)

Teaching Experience

Quaid-i-Azam University

Teaching Assistant for:

Feb. 2023 - July 2023

- Data structure and Analysis of Algorithms (Spring 2023)
- Problem Solving and Programming (Spring 2023)

Max tech Computer Institute

Teaching Assistant for:

Dec. 2019 - Dec 2020

- C++ Programming (2020)
- Android App development (2020)

Awards and Honors

- Capital University of Science & Technology (CUST) , Winner of Hackathon Competition (8th Episode of ExcITeCup 2023), Highest Prize Money Award

Certification (courses)

- Java for Android (Coursera)
- Using Python to Interact with the Operating System (Coursera)
- Linear Algebra for Machine Learning and Data Science (Coursera)
- Introduction to Docker (Coursera)
- Health Data Science Foundation (Coursera)
- Linear Algebra for Machine Learning and Data Science (Coursera)
- Web Application Technologies and Django (Coursera)
- Crash Course on Python (Coursera)
- Mathematics for Machine Learning: Linear Algebra (Coursera)
- AI for Medical Diagnosis (Coursera)
- Calculus for Machine Learning and Data Science (Coursera)

Programming Tools

- Python, Networkx, TensorFlow, Scikit-learn, PyG, PyTorch, Deep Graph Library, SQL, C++, PHP, Laravel, CodeIgniter, NodeJs, React, JavaScript, Java, Django

References

- **Dr. Rabeeh Ayaz Abbasi**, Tenured associate professor and head of department, Department of Computer Science, Quaid-i-Azam University, Islamabad, Pakistan.
Email: rabbasi@qau.edu.pk
Portfolio: <https://rabeehabbasi.github.io/>
- **Dr. Anwar Said**, Postdoctoral Research Scholar, Institute for Software Integrated Systems, Department of Computer Science, Vanderbilt University, Nashville, TN, USA.
Email: anwar.said@vanderbilt.edu
Portfolio: <https://anwar-said.github.io/anwarsaid/>