Atta Ullah

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About

I have done MPhil from Quaid-i-Azam University, Islamabad, Pakistan. Currently, I have worked 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. My work is on conspiracy source detection by considering the propagation pattern of information initiated through retweets, replies, quotes, and quote replies. I had 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
- Majors: Social Network Analysis, Graph Machine Learning
- Minors: Artificial Intelligence

BS Computer Science   Aug. 2021

- University of Swat, Swat, Pakistan
- *Project:* Learning Management System

HSSC   Aug. 2017

- Government PG Jahanzeb College Saidu Sharif

Research Experience

Research 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.

Projects

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

Teaching Experience	**Teaching Assistant**	Feb. 2023 - July 2023

Quaid-i-Azam University
Subjects:
- Data structure and Analysis of Algorithms (Spring 2023)
- Problem Solving and Programming (Spring 2023)

Programming Instructor   Dec. 2019 - Dec 2020
Max tech Computer Institute
Programming Languages:
- 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 (Online 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
- **Languages:** Python, Java, JavaScript, PHP
- **Frameworks and libraries:** Laravel, CodeIgniter, Nodejs, React
- **Database:** MySQL
- **Machine Learning:** Networkx, TensorFlow, Scikit-learn, PyG, PyTorch, Deep Graph Library

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/