

Atta Ullah

MPHIL SCHOLAR · COMPUTER SCIENCES

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About

I have done an MPhil from Quaid-i-Azam University, Islamabad, Pakistan. 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. Under the direction of Dr. Rabeeh Ayaz Abbasi, my research focused on “**Identifying Misinformation Spreaders on Twitter using Ego-Centric Network Embeddings**”. The main focus of the work was conspiracy source detection by considering the propagation pattern of information initiated through retweets, replies, quotes, and quote replies. I used a graph neural network to embed the propagation pattern to detect the conspiracy source.



Education

Quaid-i-Azam University

Islamabad, Pakistan

MPHIL COMPUTER SCIENCE

2021 - 2023

- **Dissertation:** Identifying Misinformation Spreaders on Twitter using Ego-Centric Network Embeddings.
- **Majors:** Social Network Analysis, Graph Machine Learning, Graph Neural Network
- **Minors:** Artificial Intelligence, Machine Learning

University of SWAT

KPK, Pakistan

BS (HONS) COMPUTER SCIENCE

2017 - 2021

- **Project:** Learning Management System and Parental Control System
- **Majors:** Problem Solving, Data structure and Algorithm, Agile development, Web Development, Mobile App Development
- **Minors:** Risk Management, Project Management

Government PG Jahanzeb College Saidu Sharif

KPK, Pakistan

HSSC COMPUTER SCIENCE

2015 - 2017

- **Grade:** A

Research Experience

Quaid-i-Azam University, Islamabad

Islamabad, Pakistan

ADVISOR: DR. RABEEH AYAZ ABBASI, CO-ADVISORS: DR. ANWAR SAID

May. 2022 - Present

- Dissertation: “Identifying Misinformation Spreaders on Twitter using Ego-Centric Network Embeddings”
- Research areas: Conspiracy source detection in social networks, Graph Machine Learning, Graph Neural Network

Industry Experience

Maxtech Computer Institute & Maxtech Developers

Islamabad, Pakistan

FULL STACK DEVELOPER

Jan. 2020 - Aug. 2021

- **Responsibility:** 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.** ([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](#))

Awards, Fellowships, & Grants _____

- 2023 **Prime Minister's Youth Laptop**, Higher Education Commission Pakistan
- 2023 **Winner of Hackathon Competition (8th Episode of ExclTeCup 2023)**, Capital University of Science & Technology (CUST), Highest Prize Money Award
- 2022 **Graduate Research Fellowship**, Quaid-i-Azam University, Islamabad, Pakistan

Teaching Experience _____

- Spring 2023 **Data structure and Analysis of Algorithms** , Teaching Assistant
- Spring 2023 **Problem Solving and Programming** , Teaching Assistant
- 2020 **C++ Programming**, Programming Instructor
- 2020 **Android App development**, Programming Instructor

Mentoring _____

- 2022-present **Hassan Saeed**, northwestern polytechnical university

Outreach & Professional Development _____

DEVELOPMENT

MediaEval 2022 Workshop, There are multiple tasks in the workshops. I participated in FakeNews Detection. The task consists of three subtasks: Subtask 1: Text-Based Misinformation and Conspiracies Detection, Subtask 2: Graph-Based Conspiracy Source Detection, and Subtask 3: Graph and Text-Based Conspiracy Detection. I worked on Graph-Based Conspiracy Source Detection and presented a paper in the workshop.

Publications _____

PUBLISHED

Ullah, A., Abbasi, R.A., Khattak, A.S. and Said, A., 2023. Identifying Misinformation Spreaders: A Graph-Based Semi-Supervised Learning Approach. arXiv preprint arXiv:2303.03704.

Skills

PROGRAMMING SKILLS

- **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

COMMUNICATION SKILLS

- English
- Urdu
- Pushto

References

- **Dr. Rabeeh Ayaz Abbasi**, Tenured 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/>