Fahim Anzum

Graduate Student, Graduate Assistant - Research
Department of Computer Science
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Research Interest

Machine Learning and Deep Learning with a focus on real-world problems (*i.e. Online Social Media, Biometric Technology, Healthcare, Autonomous Vehicles, etc.*); Human-in-the-loop Computing; Human-Computer Interaction (HCI); Intersection of Machine Learning and HCI

Education

- **Master of Science: Computer Science (CGPA: 4.00/4.00** Up to Ongoing Semester**)**   **Expected: Aug 2021**
  University of Calgary   Calgary, Canada
  Supervisor: Dr. Mario Costa Sousa
  Research Project: *Towards Exploring Different Image-Based Deep Learning and Machine Learning Algorithms to Estimate Particle Size Distribution of Drill Core*

- **Bachelor of Science: Computer Science and Engineering (CGPA: 3.79/4.00)**   **Jan 2018**
  Military Institute of Science and Technology (**MIST**),   Dhaka, Bangladesh
  Bangladesh University of Professionals **(BUP)**
  Undergrad Thesis: *A New Algorithm to Compute Single Source Shortest Path in a Real Edge Weighted Graph to Optimize Time Complexity*

Publication (https://scholar.google.com/citations?user=gziajGcAAAAJ&hl=en)

- Asha, A.Z., **Anzum, F.**, Finn, P., Sharlin, E. and Costa Sousa, M., 2020, September. **Designing External Automotive Displays: VR Prototypes and Analysis**. *In 12th International Conference on Automotive User Interfaces and Interactive Vehicular Applications* (pp. 74-82).
- **Anzum, F.**, Ahmed, F., Azim, M. S., Hossain, M., Zaman, S., Hasib, F., & Al Ahsan, S. (2018, June). **Smart Self Position Aligning Chair for a Modern Conference Room**. *In 2018 IEEE/ACIS 17th International Conference on Computer and Information Science (ICIS)* (pp. 263-268). IEEE.
- Zavin, A., **Anzum, F.**, Rahman, S. F., Islam, M. N., & Hoque, M. (2018, December). **Towards Developing an Intelligent Fire Exit Guidance System Using Informed Search Technique**. *In 2018 21st International Conference of Computer and Information Technology (ICCIT)* (pp. 1-6). IEEE.
- Sharif, A., **Anzum, F.**, Zavin, A., Suha, S. A., Ibnat, A., & Islam, M. N. (2018, July). **Exploring the Opportunities and Challenges of Adopting Augmented Reality in Education in a Developing Country**. *In 2018 IEEE 18th International Conference on Advanced Learning Technologies (ICALT)* (pp. 364-366). IEEE.
- Ahmed, F., **Anzum, F.**, Islam, M. N., Abdullah, W. M., Al Ahsan, S., & Rana, M. (2018, June). **A New Algorithm to Compute Single Source Shortest Path in a Real Edge Weighted Graph to Optimize Time Complexity**. *In 2018 IEEE/ACIS 17th International Conference on Computer and Information Science (ICIS)* (pp. 185-191). IEEE.

Awards & Scholarships

- **"Department Research Award"** (2020-21) at the University of Calgary
  - *Valued at CA$ 11,000 (Will be effective on Winter 2021)*
- "**Mitacs-Accelerate Graduate Research Internship**" (2019-2021) at the University of Calgary
  - *Valued at CA$ 50,000 for 2 years*
- "**International Graduate Recruitment Award**" (2019) at the University of Calgary
  - *Valued at CA$ 2,000 received on September 2019*
- "**Visa Differential Scholarship**" (2019) at the University of Calgary
  - *Valued at CA$ 4,126.17 for 1 year*

- "**MIST Commandant's List Award**" (2015, 2016) in MIST for academic distinction
- "**HSC Scholarship (2012)**" - stood **19th** in Dhaka Education Board, Bangladesh
- "**Junior School Scholarship (2008)**" on 8th grades, Dhaka, Bangladesh

Work Experience & Training

- **University of Calgary** — **Calgary, AB, Canada**
  Graduate Assistant - Teaching — Spring 2020, Winter 2020
  Conducted Courses:
    - *CPSC–217 (Introduction to Computer Science for Multidisciplinary Studies-I)*
    - *CPSC-319 (Data Structures, Algorithms and Their Application)*
- **Suncor Energy Inc.** — **Calgary, AB, Canada**
  Research Intern — Sept 2019 – Present
- **United International University (UIU)** — **Dhaka, Bangladesh**
  Lecturer, Dept. of Computer Science and Engineering (CSE) — Aug 2018 – Aug 2019
  Course Conducted*: Computer Graphics* — (Currently on Study-leave)
- **Primeasia University** — **Dhaka, Bangladesh**
  Lecturer, Dept. of Computer Science and Engineering (CSE) — June 2018 – July 2018
  Course Conducted*: Software Engineering, Data Structures*
- **Workshop on "Outcome Based Education" (OBE)** — **Dhaka, Bangladesh**
  United International University (UIU) — Aug 2018
- **Short Course on Cisco Certified Network Associate (CCNA)** — **Dhaka, Bangladesh**
  Military Institute of Science and Technology (MIST) — Duration: 42 Hours
- **Global Voice Telecom Limited** — **Dhaka, Bangladesh**
  Industrial Training on VoIP technology — Dec 2016 – Jan 2017

Technical Proficiency (https://github.com/anzumbivor)

- **Programming Language**: Python, C, C++, Java, HTML5, CSS, PHP, JavaScript, MySQL, Assembly
- **Platform/Library**: NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-Learn, TensorFlow, Keras, MATLAB, OpenGL, Android, Oracle 11g, Windows, Linux, GitHub, Cisco Packet Tracer, GNS3, MS Office, Latex

Extra-Curricular Activities & Awards

- **Organizer** of 21st International Conference on Computer and Information Technology (**ICCIT - 2018**)
- **Champion** in International Telco Warfare (Net War) - 2017 organized by East West University
- **Runner-up** in IUT CSE Fest (App Development) - 2017 among 41 teams
- **Second Runner-up** in SUST CSE Carnival (Hackathon) - 2017 among 36 teams
- **Winner** in National Symposium on "Chemical Weapons Convention for the Peaceful Use of Chemistry" (Poster Competition) - 2017
- Participated in Project Showcasing in **IEEE IHTPC - 2017** organized by BUET