

Kanchan Chowdhury

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RESEARCH INTERESTS

Machine Learning, Big Data Systems, and Geospatial Data Analytics

EDUCATION

- **Arizona State University** Tempe, Arizona
PhD in Computer Science *Aug. 2018 – Jul. 2023 (Expected)*
- **Chittagong University of Engineering and Technology** Chittagong, Bangladesh
Bachelor of Science in Computer Science and Engineering *Mar. 2010 – Nov. 2014*

EXPERIENCE

- **Arizona State University** Tempe, Arizona
Research & Teaching Assistant *Aug. 2018 - Present*
- **Gagagugu PTE LTD** Dhaka, Bangladesh
Software Engineer *Jan. 2017 to Jun. 2018*
- **Le Chef Plc** Dhaka, Bangladesh
Android Application Developer *Jan. 2015 - Dec. 2016*

PROJECTS

- **Spatial Repartitioning:** A spatial data repartitioning framework to reduce training time of ML models.
- **Named Entity Recognition:** Experimenting state-of-the-art NER approaches with two popular datasets.
- **Hotspot Analysis:** Calculating Getis-Ord statistic of NYC Taxi Trip data on top of Apache Spark.
- **GGfone:** An Android application developed while working at Gagagugu PTE LTD supporting features such as international calls, wifi calls, and credit balance transferring between users.

PUBLICATIONS

- Vamsi Meduri, **Kanchan Chowdhury**, Mohamed Sarwat; Evaluation of Machine Learning Algorithms in Predicting the Next SQL Query From the Future. *ACM Transactions on Database Systems (TODS)*, 2021
- Jia Yu, **Kanchan Chowdhury**, Mohamed Sarwat; Tabula in Action: A Sampling Middleware for Interactive Geospatial Visualization dashboards. *46th International Conference on Very Large Databases*, 2020.
- **Kanchan Chowdhury**, Lamia Alam, Shyla Sarmin, Safayet Arefin, Mohammed Moshiul Hoque; A Fuzzy Features Based Online Handwritten Bangla Word Recognition Framework. *18th ICCIT*, 2015

TECHNICAL SKILLS

- **Languages & Databases:** Python, Java, C, C++, Scala, SQL, HTML, MySQL, SparkSQL, and SQLite
- **Others:** Apache Spark, PyTorch, Scikit-learn, Jupyter Notebook, Apache Sedona, Machine Learning and Deep Learning, Sequence Models, Data Distributions, Pandas, Spatial Data Analytics, Rest API, and Android SDK

PARTICIPATION AND AWARDS

- Recipient of CIDSE Doctoral Fellowship at Arizona State University for the academic year 2018-2019.
- 2nd Runner-up at two project competitions: National Hackathon organized by ICT Division of Bangladesh and Mobile Application Code Hub organized by Bangladesh University of Engineering and Technology in 2014.
- 6th at Inter University Programming Contest organized by CUET, Bangladesh in 2012.