

Kanchan Chowdhury

Webpage: kanchanchy.github.io

Linkedin: [linkedin.com/in/kanchan-chowdhury-5729699a](https://www.linkedin.com/in/kanchan-chowdhury-5729699a)

Email : kchowdh1@asu.edu

Mobile : +1-480-410-8677

RESEARCH INTERESTS

Machine Learning, Geospatial Data Analytics, and Big Data Systems

- **Research Direction:** Building noble systems for efficient processing and utilization of large scale geospatial and spatio-temporal data with applications to machine learning and deep learning techniques.

TECHNICAL SKILLS

- **Languages & Databases:** Python, Java, C, Scala, SQL, MySQL, SQLite, and SparkSQL
- **Others:** Apache Spark, PyTorch, Scikit-learn, Jupyter Notebook, Machine Learning and Deep Learning, Pandas, Git, Rest API, Android SDK, Android Studio, Eclipse, IntelliJ IDEA, Seaborn, and Plotly Express

EDUCATION

- **Arizona State University** Tempe, Arizona
PhD in Computer Science (CGPA: 4.00) *Aug. 2018 – Jul. 2023 (Expected)*
- **Chittagong University of Engineering and Technology** Chittagong, Bangladesh
Bachelor of Science in Computer Science and Engineering (CGPA: 3.76) *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*

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.
- Vamsi Meduri, **Kanchan Chowdhury**, Mohamed Sarwat; Recurrent Neural Networks for Dynamic User Intent Prediction in Human-Database Interaction. *22nd International Conference on EDBT*, 2019
- **Kanchan Chowdhury**, Lamia Alam, Shyla Sarmin, Safayet Arefin, Mohammed Moshiul Hoque; A Fuzzy Features Based Online Handwritten Bangla Word Recognition Framework. *18th ICCIT*, 2015

PROJECTS

- **Climate Change Forecasting:** A data science project to perform data cleaning, feature engineering, and data preprocessing operations on raw temperature data and predict temperature trend with LSTM model.
- **Sentiment Analysis with BERT:** A project to classify twitter emotions with BERT pretrained model.

PARTICIPATION AND AWARDS

- Recipient of CIDSE Doctoral Fellowship at Arizona State University for the academic year 2018-2019.
- 2nd Runner-up at two national project competitions in Bangladesh: i) National Hackathon and ii) Mobile Application Code Hub in 2014 and also 6th at national Inter University Programming Contest in 2012.