

Furkhan Shaikh

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EDUCATION

- **The University of Texas at Arlington (UTA)** Arlington, Texas
Master of Science in Computer Science ; GPA: 4.0/4.0 Aug. 2019 – Dec 2021 (Expected)
- **Shri Guru Gobind Singhji Institute of Engineering & Technology (SGGSIE&T)** Nanded, India
Bachelor of Technology – Computer Science and Engineering; CGPA: 8.39/10 Aug. 2014 – June 2018

FIELDS OF INTEREST

- Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, Databases

MAJOR PROJECTS

- **Alpaca Voice** UTA (Oct 2019)
 - Implemented Alexa voice command for buying and selling shares of stock market
 - Used Voiceflow's framework and Alpaca API to create the Alexa command and for testing
 - Integrated with Google Spreadsheet to store and retrieve data for user in javascript
 - **2nd Overall Winner, HackUTA** devpost.com/software/alpaca-voice
- **Recurrent Neural Networks based Language Modelling** SGGSIE&T (Jan. 2018 - May 2018)
 - Implemented RNN for predicting words based on a sequence of past words in C
 - Implementation works on huge vocabulary without resulting in large model size
- **Aqua Scorch Image Perceiver using Image Repositories** SGGSIE&T (Jan. 2018 - May 2018)
 - Detection of Water bodies and Burnt areas from given satellite image taken with AWiFS sensor
 - Added support for multiprocessing and backend support for MongoDB in python.
 - Created web-based frontend for image retrieval and output using PHP, bootstrap.
 - **Best Student Project Award 2018** by Tata Consultancy Services (TCS) (Nominated by the institute)
 - Presented in Smart India Hackathon 2018 grand-finale under the problem statement of ISRO
- **Efficient Water Management for Greenland using Soil Moisture Sensor** (Jan. 2016 - Mar. 2016)
 - Interfaced Raspberry Pi with Arduino Uno and Hygrometer sensor for auto-irrigation.
 - Added support for data logging using Google REST API and MySQL database.
 - Created web-based frontend for remote monitoring of system using PHP.
 - **2nd prize**, My Green Idea 2017 BITS Pilani, Goa and was awarded an opportunity to work with Imagine Panaji, Government of Goa
 - **2nd prize**, Design & Development of Innovative Apps & Appliances SGGSIE&T 2016
 - **1st Runner-ups**, APOGEE Innovation Challenge by Schneider Electric at BITS Pilani 2016

PUBLICATIONS

- Content Based Image Retrieval from AWiFS Images Repository of IRS Resourcesat-2 Satellite Based on Water Bodies and Burnt Areas ([arXiv](https://arxiv.org/abs/1808.08111)) S. Kothawade, K. Mhaske, S. Sharma, [Furkhan Shaikh](#)
- Efficient water management for greenland using soil moisture sensor, IEEE ICPEICES 2016. ([IEEE-Xplore](#)) S.N. Kothawade, [Shaikh Mohammed Furkhan](#), K. S. Mhaske

PROGRAMMING SKILLS

- **Languages** : C (Advanced), Java (Intermediate), Python (Intermediate), SQL (Intermediate), PHP Laravel Framework (Intermediate), Javascript (Beginner)

EXTRA CURRICULARS

- **2nd rank in school, All-India-Rank 4613, 10th National Cyber Olympiad 2010**
- **Coordinated Android App Development 2 days Workshop** at SGGSJET Oct 2016
- **Member of Team-Sankalp** for organising campus activities at SGGSJET 2015-2016
- **Workshops Attended:** "Deep Learning using Cuda" by nvidia; Machine Learning and High-Performance Computing by TCS; Internet-of-Things; Sensor Design and Implementation; Cyber-Security and Forensics