

# TEJAS MILIND KHOT

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## Education

### University at Buffalo

January 2023

Master of Science: Data Science

### SRM Institute of Science and Technology

May 2021

Bachelor of Technology: Computer Science, GPA: 8/10

## Technical Knowledge

**Programming Languages:** Python, R, C, C++, Java

**Libraries:** NumPy, Pandas, Scikit-Learn, Keras, TensorFlow

**Data Management & Analytics:** MySQL, PostgreSQL, Matplotlib, Seaborn, Excel, dplyr, git

## Publications

### Groundwater Level Prediction for Long-Term Water Management Using Data-Driven Models

Analyzed data from over 100 observation wells and created seasonal models to describe groundwater behavior.

- Models of three types were created: periodic, polynomial, and rainfall models.
- The overall goal was to develop these models in order to forecast temporal changes in water levels in order to help local water management choices and to provide region-specific input to government planning agencies.

### Spectrum availability-based routing for cognitive sensor networks

IRJET · Oct 15, 2019

- Suggested two CSN routing metrics in this effort, taking records of the statistic and complexity of spectrum tunnels from the global and instant perspective.
- In the first routing metric, the conveyance achievement expectation through every conceivable divert is delineate in the requirement that just a single retransmission is allowed to diminish rerouting.
- The second routing metric takes into account the normal delay of transmission over each imaginable network.

## Projects

### Emotion AI: Facial Key-points Detection

- Derived N-gram word co-occurrences along with lemmatization from a large-scale Latin text data utilizing MapReduce and Spark.

### Restaurant Business Analysis

- Engaged in trying to find unique trends in restaurant businesses within districts of San Francisco using Pandas, matplotlib. conclusion was pricing, ratings, total restaurant counts, and ratings would provide most meaningful data for analysis.

### Video Game genre Analysis

- Analyzed the game dataset using pandas and NumPy. Clear differences in average sales by game genre indicate differing levels of popularity in video game industry. On average, most sold genre was the Shooter genre, followed by Sports and Platform. On average, more sales of games on non-handheld consoles. Statistical tests support these differences as being statistically significant.

## Professional Experience

### Verzeo | Data Science Intern

May 2020 – July 2020

- Enhanced data analysis with applied machine learning.
- Analyzed data on ODI cricket game and discussed what is “best” number of wickets to lose in an One Day International Cricket match.

### Regal Marketing Services | Software Development Intern

Dec 2019 – Jan 2020

- Implemented a project using Java J2EE. Managed to apply it on the website.
- Maintained and debugged company's website with a dedicated team.

### C-edge (A TCS and SBI enterprise) | Software Development Intern

June 2019 – July 2019

- Developed a web application to capture and store cheque images and data for daily processing of cheques. A prototype was developed by using python-based framework Flask, HTML and JavaScript.

## Involvement & Certificates

**Volunteer, Walkathon – Save Nature, Save Life.**

**Campus Ambassador – Eximius 2020, IIM Bangalore.**

**Microsoft Technology Associate –Programming in Python. Campus Ambassador - E-Summit'21, IIT Roorkee.**