

# CSCE 689: Human Behavior Analytics

## Homework 1

Sameer Kumar Behera UIN: 526004296

### Academic Bio:

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Sameer Kumar Behera

Masters Student in Computer Sciences at Texas A&M University, College Station.

College Station, Texas



Texas A&M University



See contact info



See connections (500+)

### **Current Position:**

- Graduate Assistant under Prof. Duncan Walker, CSCE Dept., Texas A&M University

### **Degrees Held:**

- Bachelor of Technology in Electronics & Telecommunication Engineering from VSS University of Technology with a GPA of 3.84/4.00

### **Background:**

- A graduate student pursuing Masters in Computer Sciences under Computer Science and Engineering Department at Texas A&M University, College Station. Has taken credits on Analysis of Algorithms, Software Engineering, Database Systems, Databases and Computational Tools in Big Data, Data Mining & Analysis, Cloud Computing, Machine Learning, Natural Language Processing and Human Behavior Analytics to gain extensive knowledge in the above fields of Computer Sciences.

- Around 2 years of professional experience in Accenture Solutions Pvt. Ltd. as an Application Development Analyst, having worked as a team on several challenging projects, identifying and resolving bottlenecks and accomplishing the tasks and deliverables at hand well within deadlines. Moreover, very eager on learning new skills and adapting to different technologies.

### **Recent Projects:**

- **National Science Foundation Innovation Corps Site Fellowship Program Project – INFRAFRAME**  
Being the Entrepreneurial & Technical Lead of the team, developed several components of InfraFrame, a cloud-based pavement asset management software which supports the asset management process in terms of data access, analysis & reporting.
- **Implementation of a 311 Request & Work Management Application**  
Specifically involved in building the GPS geolocation task of the app using Google Maps in Android Studio.
- **Comparative Analysis of Different Scheduling Algorithms in Cloud Computing Environment**  
Analyzed performances of several scheduling algorithms used to resolve task and resource scheduling problems in cloud.
- **Design and Implementation of OpenStack Functionalities**  
Implemented the Virtual Server Creation/Instantiation functionality of OpenStack
- **Design and Implementation of a Real-Time Message Boards/Chat**  
Designed the architecture of a real-time chat application and implemented the prototype using Redis and MongoDB.
- **Fruit Preferences Voting Application Design and Implementation**  
A voting application for the fruit preferences of students hosted on <https://myvoteapp.000webhostapp.com>
- **Design and Implementation of a Tiny-SQL Interpreter**  
The Tiny-SQL Interpreter included a Parser, Logical & Physical Query Plan Generator and a Storage Manager Library.
- **Voice-Controlled Android Game Application for Training of Parrots**  
Developed a voice-controlled game on UNITY platform for the training of parrots and deployed it as an Android app.
- **Graduate Alumni Directory for CSE/ECE Departments of Texas A&M University**  
Implemented a Graduate Alumni Directory for the CSE and ECE Departments of the University.

### **Awards and Honors:**

- Worked as a Graduate Student Research Assistant under Prof. Duncan Walker and Prof. Nasir Gharaibeh.
- Was the Branch Secretary of Electronics & Telecommunication Engineering Society, VSSUT-Burla from 2013-14

### Major Publications:

- **An Analytical Review on Image Segmentation Methods Based on Transition Region-Based Thresholding in IJAREEIE**  
Analyzed several image segmentation methods along with their different performance measures and published the research findings as a scholarly paper in an International Journal, IJAREEIE (DOI - [10.15662/IJAREEIE.2016.0505056](https://doi.org/10.15662/IJAREEIE.2016.0505056)).

### Research Interests:

- Artificial Intelligence, Machine Learning, Deep Learning, etc.

### Hobbies and Interests:

- Playing Badminton, Swimming, Travelling and Singing Music.

## Self-Introduction Lightning Talk:

## Human Behavior Analytics: Lightning Talk

Sameer Kumar Behera  
Graduate Student, CSCE Dept.





**COMPUTER SCIENCE  
& ENGINEERING**  
 TEXAS A&M UNIVERSITY

Background:





Research Interests:




Non-Research Interests:






## **Self Assessment Reports:**

On researching about the Trait Anxiety Theory and Communication Anxiety Theory, I went through some research articles described below and found that their goal in creating the inventory was to create a set of questions that could be applied towards assessing different types of anxiety.

### **References:**

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3879951/>

<http://healthyinfluence.com/wordpress/wp-content/uploads/2010/12/CAI-CQ-1986.pdf>

The self-reports are psychological inventories based on a 4-point Likert scale and consists of many questions which ask about stress, depression, anger, happiness, pleasantness, etc. in general and also nervousness, fear, etc. during communication, either one-to-one or one-to-many.

These reports can be used in diagnoses, in both clinical and other medical settings, as well as in research and differentiating between anxiety and depression.