# Vighnesh Sivaraman

Arlington, TX 76013 | +1 (803) 662-6701 | Website | Github  | vighneshsivaraman@gmail.com

## EDUCATION

**The University of Texas at Arlington**                                                                 **Arlington, TX**
*Computer Science/Masters*                                                                            *Jan 21 to Dec 22\**
- Cumulative GPA: 3.28/4.0
- Relevant Coursework: Data Mining, Machine Learning, Artificial Intelligence, Data Analysis and Modeling Techniques

## SKILLS

**Skills:** TensorFlow, PyTorch, Java, Python, C, C++, Nodejs, Angular, Android (Java and Kotlin), iOS, JSF, Spring, Spring Boot, AWS, GCP, Azure, Arduino, MATLAB, Verilog, VHDL, IoT platforms, Linux.

## ACADEMIC PROJECTS

**Neura Colorizer**                                                                                                          *Nov 21*
*Python, Scikit-learn and TensorFlow*
- Developed a Convolutional Neural Network (CNN) model from scratch to color grayscale images.
- Created a **Generative Adversarial Network (GAN)** to extract the Latent features from the gray scale images.

**Disaster Alert System**                                                                                                    *May 21*
*Python and Scikit-learn*
- Created a mobile application for first responders to get trustworthy alerts about nearby disasters such as theft, fire, bombs, floods and many more.
- Developed based on the data feeds received from twitter tweets and classified with a Naïve Bayes Classifier developed in python to filter out falsy information tweets.

## WORK EXPERIENCE

**University of Texas at Arlington, TX, USA – Graduate Research Assistant**                   *Feb 22\**
- Worked in the UTA MobiSec Lab Computer Science Department.
- Developed Android Applications and Machine Learning models for the research papers of interest.
- Assisting with organizing OurCS@DFW workshop for the project AirMon, "Development of a Cloud-Based IoT System for Air Quality Monitoring".
- Contributed to the development of CycleGuard, an Android application for bikers for frontal object detection.

**Revature Consultancy Services - Senior Software Engineer - India**                     *Aug 17 - Dec 20*
- Led the Operations and Management Team consisting of 5 members.
- Developed Web application in MySQL 5.7 Backend, Java 11 Spring framework and Angular v11.
- Developed proposals for many different microservice architectures with GCP and AWS.

**Revature Consultancy Services – Intern - India**                                               *Dec 16 - Mar 17*
- Developed an Android Application with the existing services that the company had at the time.
- Internal Web page development for the Department of Animal Husbandry, Dairying and Fisheries.

## PUBLICATIONS

**Real-Time Accident Analytics**                                                          **Chennai, Tamil Nadu, India**
*Journal of Chemical and Pharmaceutical Sciences, ISSN: 0974-2115*                                *June 17*
- An Android and Web application to detect, record and generate heatmaps of real time accidents