

SIRIBHUVAN REDDY YELLU

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## EDUCATION

**Georgia State University, Atlanta, GA**

Aug 2020 – Present (Expected: 2023)

Bachelor's in computer science Honors.

**GPA: 4.0**

## WORK EXPERIENCE

**NCR Corporation, Atlanta, GA**

May 2022 – Aug 2022

Software Engineer Intern (*iOS development*)

- Part of the Hospitality Department at NCR.
- Worked on Engage Mobile iOS app, which multiple small and mid-sized businesses use.
- Reconfigured the backend service of the app from NOLO legacy API legacy to Mercury.
- Worked on creating and implementing API calls to retrieve business unit data and process consumer requests on the backend side of the app.
- Built the customer-facing UI components of the app and connected them to the backend.

**Georgia State University, Atlanta, GA**

Aug 2020 - Present

University Assistant (*Mathematics and Statistics Department*)

- Assist students during statistics class and help them with their doubts during the course.
- Host online sessions four times a week to provide additional assistance in statistics for students.

## RESEARCH EXPERIENCE

**Georgia State University, Atlanta, GA**

Nov 2021 - Present

- Working in the area of computational musicology for the past one year.
- Developing a Deep Learning model using an CNN LSTM network for generating and predicting musical patterns based on pitch, duration, and onset. Also, melody and cognitive preferences incorporating into the ML model.
- The model is being built with the help of PyTorch framework. Additionally, representation of the musical notations and their information is done using the music21 library.

## PROJECTS

**Heart Failure Predictor – Machine Learning and Data Science Project ([Link](#)):**

- Using various body measures, this model predicts the likelihood of a heart patient passing away before the follow-up.
- Balanced data in columns using SMOTE and Analyzed 13 different human body parameters using pandas and matplotlib.
- Implemented and tested 8 classification algorithms to build an ML model which predicts whether a patient would pass away within their follow up period.
- The highest model accuracy of 87.7% was obtained by Random Forest Classifier.

## TECHNICAL SKILLS

**Languages:** Java, Python, HTML5, CSS3, JavaScript, Swift

**Technologies:** iOS, Git

**Libraries & Frameworks:** Node.js, UIKit, Tensorflow, PyTorch, scikit-learn

**Databases:** MongoDB, MySQL

## AWARDS

- **President's List (*Georgia State University*)**  
Made the President's list for having a GPA of 4.0 in freshmen and sophomore years.
- **Sri Chava Seetharamanjaneyulu Award (*Silver Oaks International School*), Aug 2018**  
Recognized as a high achiever for ranking 4th out of 167 students in the school in all India school examinations during my 10th grade.
- **Swimming State Champion (*Swimming Federation of India*), May 2012 – June 2018**  
Won many medals in swimming at district, state, and South Indian Nationals.