SURABHI JAGADEESH

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EDUCATION

Master of Science: Computer Science
The University of North Carolina At Charlotte | Charlotte, NC | GPA: 4.0/4.0 | **Aug 2022 – Dec 2023**
Relevant Coursework: Algorithms and Data Structures, Mobile Application Development, Network-based Application Development, Computer Communication and Networks, Machine Learning, Object Oriented Concepts, Database Management System, Intelligence System.
Bachelor of Engineering: Computer Science
Global Academy of Technology | Bengaluru, India | GPA: 3.7/4.0 | **Graduation: Aug 2021**

SKILLS

- **Operating System: Windows, Linux, MacOS**
- **Programming Language**: Java, Python, C, C++.
- **Databases**: MySQL, SQLServer, Firebase, MongoDB.
- **Android Development**: Android Studio, Java, Firebase, OKHTTP, Google Analytics, Picasso.
- **Framework**: HTML5, CSS, JavaScript, Bootstrap, jQuery, JSON, NodeJS, RESTful Services, Github, Express.js.

WORK EXPERIENCE

Graduate Teaching Assistant | University of North Carolina, Charlotte **April 2023 - Present**
- Teaching Assistant for the course Applied Machine Learning for a student strength of 42 based on Python which primarily focuses on Data visualization, Regression, Classification and Neural Networks. Responsible for mentoring students, analyzing data, clearing doubts, and grading applications and assignments.

Technology Analyst | NTT Data Global Delivery Services Private Limited **Nov 2021 - Jul 2022**
- Provided support to the service desk staff regarding network and infrastructure problems.
- Provided assistance for office and warehouse for PC builds and software support.
- Ensured system, network and Data availability through preventing maintenance and upgrades

Internship | Movie Qu **Nov 2020 - Dec 2020**
- Performed web scraping using Python and Selenium to collect data with regards to US movie theater websites.
- Facilitated the use of collected data for building iOS mobile applications.
- Optimized customer experience for ticket purchases.

Internship | Tequed Labs – Research and Innovation Hub **Jan 2020 - Feb 2020**
- Collaborated with a team of developers to create an Android Application for tracking student attendance.
- Participated in a hackathon to develop an application that was awarded for best performing application.

PROJECTS

Diabetic Retinopathy Detection using Deep learning | *Technologies used: efficient net, gaussian blur, python*
- Created a model to automatically detect the degree of retinal damage using the pre-trained deep neural networks on the Diabetic Retinopathy Database.
- After testing and retraining the model, it was utilized to develop an application using a flask. Image processing techniques such as Gaussian Blur, Circle crop, and deep learning techniques such as Transfer learning and Efficient Net were employed. The software creates a report with processed photos for diagnosis after classifying the degree of diabetic retinopathy from a fundus image of an eye.

Live Chat Mobile Application | *Technologies used: Java, Android Studio, Firebase*
- Developed a live chat application that uses Firebase Authentication and enables simultaneous live messaging between numerous users. Added favorites, likes, and deletion features.

Fintrak | *Technologies used: HTML, Bootstrap, NodeJS, MongoDB*
- Developed a personal expense tracker website called Fintrak featuring user authentication, expense and budget management, reporting, email notification, and security measures. Simplified financial management for users with a user-friendly interface to track their spending habits and make informed financial decisions.

Jewelry Trading Web Application | *Technologies used: HTML, Bootstrap, NodeJS, MongoDB*
- Developed a web application based on the MVC architecture using Node.js, MongoDB, Express.js framework to provide a platform to trade a jewelry product.

Complaint Management System| *Technologies used: C#*
- Developed a user-friendly website where people of any age group can conveniently raise their complaints, track their progress and finally get their complaints resolved all under one portal.

COVID-19 Data Analysis | *Technologies used: Python*
- Developed a model based on Facebook's prophet model to do exploratory data analysis on textual and tabular data in order to establish the typical incubation period and predict the number of Covid-19 cases.

Blood Alcohol Concentration Calculator | *Technologies used: Java, Android Studio, Firebase*
- Created an Android application that allows users to determine how much alcohol is now in their bodies and how many more drinks they can have. With regard to the users, the data is accessible and kept in the Firebase database.
- Utilized API functionality to get data from the server with immediate updates via API queries.

NOTABLE ACHIEVEMENTS

- Awarded with Best Internship Project in a Technical Project Competition organized in conjunction with Tequed Labs' Industrial Skill Development Program on Android Application Development.