

Krish Karrn Ranglani

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Extremely curious, willing to work hard and learn as much as possible.

EDUCATION

Georgia Institute of Technology

Aug. 2021 – Dec. 2024

Bachelor of Science in Computer Science

GPA: 3.8

- **Member of the RHA and President of the Woodruff Hall Council (2021-2022)**
- **Clubs: Big data Club, Analyst at Georgia Tech Investments Committee**
- **Relevant Course Work: Data Structures and Algorithms, Intro to Object Oriented Programming, Computer Organization and Programming, CS Objects and Design, Applied Combinatorics, Intro to Discrete Mathematics**

EXPERIENCE

Georgia Tech Research Institute

Aug.2022 - Ongoing

Student Researcher

Atlanta, GA

- Working with a group of researchers to develop a robot that uses high-resolution laser line scans of peach trees and develops algorithms for optimal pruning actions.
- Built an application that helps keep track of previous pruning actions and compares it with the current actions in order to track the growing patterns of the tree.
- Extracted the peach tree from images using a Generative Adversarial Networks, in order to apply the algorithm to find the optimal pruning locations.
- Used **Java back-end and Machine Learning for computer vision and image processing.**

Technogeeks

June 2021 – Aug. 2021

Data Science Intern

- Completed a **Computer Vision and Deep Learning project** using python that identifies and predicts the user's mood.
- Used **Tableau and pandas** for Data Visualization and **MySQL** for Database administration
- Applied and implemented an algorithms like **SVM(Support Vector Machine) and LBP(Local Binary Pattern)** to accurately detect and predict the intensity of facial emotion

PROJECTS

Hello Buddy!

- Created a mental health tracker, that tries to get an idea of the mental state of the user (in the least intrusive ways), finds out if they are suffering and then suggest measures they can take to get out of their present condition.
- Used **Flutter, Firebase and implemented the Google Sign-in feature.**

FastCart

- Built a tag that is attached to a cart and scans the items the user puts in it and automatically charges the user for it.
- Using **Angular, Android Studio, Arduino**, I was able to combine hardware and software to make a NFC tag that would be able to collect and transmit data to be analyzed on the manager web app and mobile phone app.

Grade Saver

- Implemented an algorithm that scans lecture slides and creates a summary of the topics covered using Extractive text summarizing, which weighs terms' importance based on term frequency, inverse document frequency and font.
- Used pytextrank implementation to implement the TextRank Algorithm, which is similar to Google's PageRank Algorithm.
- Made use of the **SpaCy** package in python.

I am Professor

- Designed a website that scans popular forum websites for unanswered questions and shows them on a single web-page
- Used **StackOverflow, StackExchange and KhanAcademy APIs** to search for unanswered questions
- Applied **HTML,CSS, JavaScript and React**

SKILLS

Languages : Python, Java, JavaScript (Angular.js), HTML/CSS, MySQL, C(Programming Language)

Tools : Linux, Keras, Pytorch, TensorFlow, Scikit Learn, Pandas, Bootstrap

Design:Eagle