# Jai Kashyap

Atlanta, GA | jkashyap3@gatech.edu | +1 571-459-3758 | linkedin.com/in/Jai-Kashyap | github.com/jkash25

## Education

Current Computer Science Student at Georgia Tech | Graduation Date: May 2028

**Current Coursework**

- CS 1331: Object Oriented Programming
- CS 2050: Discrete Mathematics for Computer Science
- MATH 1554: Linear Algebra
- PHYS 2211: Physics I
- CS 1100: Freshman Leap Seminar

**Rock Ridge HS & Academies of Loudoun: Class of 2024**

- Class Rank: 12/357
- GPA: 4.66

## Experience

**Research Intern**, GMU Sep 2023 – May 2024

- Training a 3D-Convolutional Neural Network on the MIRACL-VC1 lip-reading image dataset and self-created dataset
- Using Python and machine learning libraries like TensorFlow and Keras to predict spoken words based on lip movements
- Link to Preprint

**Research Intern**, Quest Student Research Institute Jun 2023 – Aug 2023

- Used real world COVID-19 data from US, UK, and Canada
- Trained a deep neural network to extract features from data with factors such as the number of ICU patients, vaccination rates in the area, and preexisting health conditions.

**Software Engineer, Intern**, Samskrita Bharati Oct 2022 – Jan 2023

- Worked with Flask, a web framework written in Python to create a pronunciation feedback tool for new Sanskrit language learners.
- The tool used MFCC (Mel-frequency cepstral coefficients) to compare a correctly spoken word or sentence in Sanskrit, to the new speaker's pronunciation. The app then returns a similarity score to provide an assessment of the speech pattern.

## Projects

**Sentiment Analysis on Twitter Stock Market Data** Github Link

- Used Bidirectional Encoding Representations from Transformers (BERT) to classify tweets.
- Programmed using Python and libraries such as PyTorch and Keras.

**COVID-19 Mask Wearing Detection** Github Link

- Used a Convolutional Neural Network to predict on 3 classes (wearing mask, not wearing mask, and improperly wearing mask) with 97% accuracy.
- The system uses computer vision techniques to identify faces and then applies machine learning algorithms to determine if a person is wearing a mask, wearing it incorrectly (e.g., not covering the nose), or not wearing a mask at all.

**Germman Verb Conjugation** Github Link

- Used Python and Selenium to build an NLP program that conjugates German verbs, using user-provided pronouns and tenses.