

# Raahul Singh

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Dehradun | London

## EDUCATION

### IIIT SRI CITY

BTECH IN COMPUTER SCIENCE  
AND ENGINEERING  
Cum. GPA: 8.43 / 10  
August 2018 - 2022 | India

### ST. JUDE'S SCHOOL

Grad. May 2017 | Dehradun, India

## LINKS

Website: [raahulsingh.net](http://raahulsingh.net)  
Github: [Raahul-Singh](#)  
GitLab: [rasalgul2](#)  
LinkedIn: [raahulsingh42](#)  
Substack: [pathfinder](#)  
Medium: [@raahulsingh42](#)

## COURSEWORK

### UNDERGRADUATE

- Deep Learning
- Artificial Intelligence
- Machine Learning
- Object Oriented Programming
- Information Retrieval
- Service Oriented Application Development

## SKILLS

### PROGRAMMING

Python  
Frameworks:  
Pytorch • Numpy  
Pandas • PyGame  
SunPy • Tools:  
Git • Bash  
Familiar:  
SQL • Java

### PUBLIC SPEAKING

English Debate

- First Prize among speakers from 33 countries.

International English Debate QUANTA (2016)  
City Montessori School, Lucknow, India

- Over 7 years of Inter School and District English Debating experience.

## RESEARCH AND ENGINEERING EXPERIENCE

### PHAIDRA

SENIOR AI RESEARCH ENGINEER  
August 2020 - Present

- Worked on incorporating causal inference techniques to reduce biases in learned models.
- Worked on data agnostic techniques for enforcing known first principle domain knowledge learning in deep neural nets.
- Worked on ML Observability and Domain Specific Model Performance monitoring.
- Implemented solutions for dealing with Large Action Spaces in decision problems.
- Worked within Research and Engineering teams, designing and developing tools to bring cutting edge in house research to production.
- Achieved 15x accuracy in time series prediction tasks using 30x less data, for 2x and 3x variable prediction horizons

### GOOGLE SUMMER OF CODE '20 @ SUNPY (OPENASTRONOMY)

STUDENT DEVELOPER  
May 2020 - July 2020

- Developed models for forecasting the likelihood that an Active Region on the sun would produce a solar flare in the near future.
- A Search Events object capable of querying and matching data from HFC, HEK and HELIO databases was created.
- *[Link to an overview of deliverables.](#)*

### INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE

MACHINE LEARNING INTERN @ THE BIOTECH DEPARTMENT  
May 2019 - July 2019

- Under the guidance of **Dr. Debabrata Sircar**, implemented standard machine learning algorithms to train on biochemical sensor data to predict shelf-life of edible fruits.
- Worked on data analysis of volatile chemicals of fruits, to understand the biological parameters that affect post-harvest storage and nutritional qualities of fruits.

## PATENTS

### DETERMINISTIC INDUSTRIAL PROCESS CONTROL

US20250021061A1 (JAN 2025)

- Co-inventor on published patent application (assigned to Phaidra Inc.) for novel control systems: Systems and methods for deterministic thermal constraint control.