# **Work experience**

Byju's Think & Learn, Developer

2021-06 ~ 2022-10

Python Game Development Django ) Kiwi ) Django REST API Framework Pandas

## Byju's Math App

 Developed Math-based games for Byju's Math App using Construct 3 software. (Video links in the Portfolio).

### DevOps Team

 Worked with a team for automating report card generation for students just after the live class.

#### Capstone Team

- Developed and maintained tech assets for White Hat Jr. Capstone Team. Capstone was a unique project which aimed at teaching kids of G1-8 math with the help of interesting coding projects.
- Created an in-house copy-edit tool to highlight and rectify copy-edit errors in online documents which saved the time and effort of copy-editors by 70%. The tool successfully fixed content-related issues, conventions as well as mathematical equations. Google Apps Script, Python, HTML, CSS, and JavaScript were used to train and deploy the model as a Google Chrome extension.
- Modified the open-source version of the Scratch platform (Developed by MIT) to customize the UI and added an additional extension to it. Technologies used: React. HTML, CSS, and JavaScript.
- Created a software named Transletto to extract, filter, and modify information from .sb3 files. The tool effectively translated US-EN assets into Spanish. Technologies used: Pandas, Kiwi, Machine Learning, T5 Transformer Model.

# Cuemath, Python Instructor

2021-05 ~ 2021-06

Python )

CueMath Teacher Training Program

Robogenius Innovation Studio, Research Assistant and Python Trainer 2019-06 ~ 2021-05

3d Printing) Python Lego Robotics Arduino Publications ) Django ) HTML/CSS/Javascript )

Coach - LEGO FLL Jr. India

# </> Personal projects

# % Employee Management App A project built on top of the Django Rest framework

containing multiple apps for managing data like employees, departments, salaries, tasks, work in progress, managers, etc. It has a good-looking UI with search features and has class-based views for Rest API calls. Rest API calls can be tested from the postman.

# Dorsey tweets affected the Cryptocurrency visualized how the values of cryptocurrencies were being

% Analysis of how Elon Musk tweets and Jack

affected by the tweets from giants like Elon musk and Jack Dorsey. Matplotlib ) Python Numpy **Pandas** Visualization

% COVID-19 Interactive Visualization with

MANIM Made a dashboard-like environment to make videos of

graphs explaining how four different compartments of the SEIR Model (Susceptible, Exposed, Infected, and Recovered) for coronavirus spread changed with time in a state/country 3Blue1Brown's manim Python Dash ffmpeg

#### Plotly ) Pandas ) % StackOverFlow API

## An Application over StackOverflow API for searching questions in StackOverflow.

Requirements: Should be able to search all available fields/parameters.

List the result with pagination with the Django template (Using Restful API and angular/react bonus). Page/Data should be cached. (Application should only call StackOverflow API if we didn't pull data already for the same query param)

Add a Search limit per min(5) and per day(100) for each session. % Rodincode Website

## Built a website for my startup called Rodincode. RODIN (Robotics Data science artificial Intelligence Networks)

promises to give you quality Online coding classes for Math, Physics, Robotics, Data Science, Machine Learning & Deep Learning. HTML/CSS/Javascript **Visualisations** Plotly Jerkyll

# APIs )

% LEGO NXT Self Parking Program Built an algorithm for LEGO NXT to find enough space to

fit and then autonomously park itself in an aisle.

(Algorithm ) LEGO Robotics

# % Classification of signals using CNNs - M.Sc

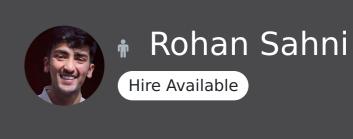
Project Reviewed a method proposed by Kaschuee on PhysioNet's MIT-BIH Dataset and then compared its accuracy on arrhythmia classification using different optimizers.



% Other links

GitHub: <a href="https://github.com/rodinco">https://github.com/rodinco</a>... About Me: <a href="https://about.me/rohansahni">https://about.me/rohansahni</a>

Medium : <a href="https://medium.com/@ph...">https://medium.com/@ph...</a>



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Chandigarh Developer

Django Python Pandas Sklearn Game Development HTML/CSS/Javascript Flask

Check his GitHub visualize report