Ishya Casukhela

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https://github.com/casukhelai

EDUCATION
The Ohio State University   Columbus, OH
Bachelor of Science in Mathematics, Specialization Biology, Minor in Spanish   Graduation: December 2021

SKILLS
- Python, R/RStudio, MATLAB, HTML, CSS (Bootstrap and Materialize Framework), JavaScript (jQuery, Node.js and C++
- Machine learning model building for statistical learning
- Data wrangling, regression analysis, ANOVA, hypothesis testing, inferential statistics testing
- Fluent in English, Spanish, Telugu

RESEARCH EXPERIENCE
Machiraju Laboratory – Undergraduate Student Researcher   January 2021-Present
Digital Pathology Laboratory
- Use R and Python to create training, validation, and test data sets for a multi-task machine learning model to automate sarcoma tissue recognition

WORK/INTERNSHIP EXPERIENCE
Athena Infonomics   Remote
Data Analytics Intern   May 2020-August 2020
- Analyzed data regarding the presence of waterborne illness in Mumbai, India
- Studied ordinary least squares regression and linear-mixed effects models theory
- Used R to clean datasets and construct maps of Mumbai, India
- Developed literature review and data on waterborne illnesses based on particular factors, like precipitation, infrastructure access, and climate changes

The Ohio State University   Columbus, OH
Research Commons Students Aide I   September 2018-August 2020
- Provided basic directional and reference assistance to library patrons, including information about Research Commons space, services, technology, and events

The Ohio State University at Lima: Math Learning Center   Lima, OH
Math and Statistics Tutor/Grader   August 2017-August 2018
- Assisted students in understanding various math concepts ranging from pre-college math to Calculus II
- Assessed students' knowledge and led them to understanding concepts for themselves
- Worked with other tutors and professors to provide effective tutoring for various learning styles

ACADEMIC PROJECT EXPERIENCE
Full-Stack Developer Course – The Ohio State University   April 2021 – October 2021
- Boredom Activity Selector – Used HTML, CSS and JavaScript such that the user can be given a random activity given their location's weather and number of people participating: https://casukhelai.github.io/weather_activity_selector/
- Random Password Generator – HTML and CSS framework were given, but JavaScript was written such that the user can choose their password length and if they would like lowercase, uppercase, numbers, and/or special characters in their password: https://casukhelai.github.io/random_password/
- Workday Scheduler – a simple calendar that uses HTML, CSS and JavaScript for a user to keep track of their day and save their inputs in if they close out of the tab: https://casukhelai.github.io/workday_scheduler/

Introduction to Mathematical Biology – Final Project   Spring 2020
- Studied peer-reviewed article, conducted and presented a thorough critical review on the authors' differential equation model

Quantitative Neuroscience – Final Project   Spring 2020
- Picked a neural system to study and modeled using XPPAUT
- Worked on modelling interaction between cerebellar Golgi cells and cerebellar granule cells