913.980.8753 | rpathak38@gatech.edu

EDUCATION

GEORGIA TECH

BS IN COMPUTER SCIENCE

May 2023 | Atlanta, GA College of Computing

Threads: SysArch and Intelligence Overall GPA: 3.88 / 4.0

Major GPA: 4.0 / 4.0

BLUE VALLEY WEST

HIGH SCHOOL DIPLOMA May 2020 | Overland Park, Kansas Summa Cum Laude Weighted GPA: 4.87 Unweighted GPA: 4.0

LINKS

Instagram:// rishi.pathak156 Github://rpathak38 LinkedIn://rishi-pathak-84312815a

PROJECTS

COMPUTER SCIENCE

SIMPLE LANE DETECTION

Simple lane detection algorithm in Python that implemented Canny Lane May 2020 - Sep 2020 | Overland Park, KS Detection and Hough Line Transform in order to calculate and display the suggested path for a car.

IHEARD

Web app that classifies and identifies various sounds (drilling, dog barking, etc.) by means of a neural network written in PyTorch.

Website: https://iheard.tech/

ELECTRONICS

RASPBERRY PI GOOGLE HOME

Implemented ideas from basic circuit design in order to create a cheap, open source version of a Google Home.

SKILLS

PROGRAMMING

Over 5000 lines: Java • Python Over 1000 lines: C • Assembly Familiar:

iOS • Android • LaTex

RESEARCH

KENDEDA BUILDING FOR INNOVATIVE SUSTAINABLE DESIGN

SECONDARY INVESTIGATOR

Jun 2021 – Present | Atlanta, GA

- Developing an iOS based app that attempts to detect the presence of invasive species in pictures through the use of convolutional neural networks.
- Research was selected by the Kendeda Building Advisory Board for full funding on an as needed basis, with initial valuation of \$500, as part of the micro-grant program at Georgia Tech.

GEORGIA TECH DEPARTMENT OF MATHEMATICS

Undergraduate Research Assistant

May 2020 - May 2021 | Atlanta, GA

- Worked under **Professor Heinrich Matzinger** to determine the true mortality rate of the first wave of the Coronavirus Pandemic.
- Used the requests and requests-html libraries to gather data from various governmental dashboards.
- Developed models using matplotlib, numpy, and pandas in order to extrapolate inferences about the mortailty rate within the general populous from scattered datapoints across the world.
- Used **sklearn** library to create machine learning algorithms and draw correlations between coronavirus mortality rate and age

EXPERIENCE

CODE THE UNIVERSE | FOUNDER + CHAIRMAN

- Founded a international level nonprofit involved in teaching more than 2,500 students across the world about the fundamentals of programming.
- Actively involved in the development and release of courses on more than 8 different programming languages.
- Developed and maintained server infrastructure through AWS cloud services and maintained a course registration bot written in Python.

Kendeda Micro Research Grant Awardee

Motivate Award: 2nd place; (FIRST Robotics Super-Regional)

AWARDS

2021 Collegiate

2017 National

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2020	National	National Merit Scholarship Competition Winner
2020	State	Kansas Governor's Scholar
2020	National	National AP Scholar
2017	International	Think Award Finalist (FIRST Robotics World Champions