# Avi Patel

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## EDUCATION

- **Purdue University**                                                                                                          West Lafayette, IN
  *BS. Computer Science Honors, GPA: 4.0/4.0*                                               *August 2020 - May 2023*
  - **Relevant Coursework:** Problem Solving and OOP, Programming in C, Discrete Math, Intro. to Statistics, Data Mine I/II, Competitive Programming 1

## EXPERIENCE

- **The Data Mine-Purdue University**                                                                            West Lafayette, IN
  *Undergraduate Data Science Researcher*                                                           *Aug. 2020 - Present*
  - Developing algorithms to collect and perform data analysis on faucet data from Twitter under supervision of Delta Faucet Company
  - Insights gained from this project will help Delta Faucet Company **improve** faucet designs and **increase** sales
  - *Tech Stack:* Python, R, Tweepy, Twitter API
- **Tri-Valley Youth Expo (Expo Hacks Team)**                                                                       Dublin, CA
  *Head of Communications*                                                                                 *Sept. 2019 - May 2020*
  - Helped secure **$35,000** of sponsorship money from companies and government organizations
  - Cultivated partnerships with **50+** high schools and non-profit orgs. to promote the hackathon
  - Facilitated **weekly** discussions with other members of the communications subteam and kept track of progress in a shared spreadsheet
- **Dublin High School S.W.A.T. (Students Work to Advance Technology)**                            Dublin, CA
  *Technical Support Specialist*                                                                             *Aug. 2016 - Apr. 2018*
  - Provided **one-on-one** assistance to students and teachers who had difficulties working with on-campus technology
  - Managed checking in/check out of school resources (laptops, books, mice, headsets, etc)
  - Guided students new to the school district through the GSuite account set up procedure

## PROJECTS

- **Does The US Judge a Book By Its Cover?:**
  - Worked with a team of 4 students to develop a full stack web application which takes in the image of a person's face from the front end, sends the image to the backend, passes it into a custom trained CNN, classifies the person based on particular demographics (age, race, gender). This information is used in conjunction with a dataset to quantify how much of an electoral vote a person is worth. Through this project, we learnt that the electoral college favors certain races more than others.
  - *Tech Stack:* Python, Flask, Numpy, Pandas, PyTorch, React.js
- **RecycleMate:**
  - Worked with a team of 4 students to develop a cross platform mobile application which detects if an item is recyclable or not using the phone's camera. A crowd sourcing function was added so the user can add the item to the dataset if not already present.
  - *Tech Stack:* React Native, Google Cloud Vision API

## OTHER

**Programming Languages:** Java, Python, HTML, CSS, Javascript, R
**Technologies and Frameworks:** React.js, Node.js, Express.js, RESTful API, MongoDB