

# Aniket Patel

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## Education

Bachelor of Science, Computer Science, Texas A&M University – College Station, Texas Dec 2022  
Overall GPA 3.83/4.0

James E. Taylor High School – Katy, Texas May 2019  
Overall GPA 4.46/5.0

## Coursework

Intro to Program and Design Concept • Data Structures and Algorithms • Discrete Structures for Computing • Computer Organization • Design and Analysis of Algorithms • Programming Languages • Machine Learning, Fundamentals of Networking

## Experience and Projects

Research Assistant April 2020-Current  
Electron Microscopy, Microstructural Characterization & Small-scale Mechanics Lab College Station, TX

Worked in a small team to create a program to extract data from and analyze large files of diffraction pattern data using python

Designed a themed Graphics User Interface for this program's ease of use

Visualized the extracted data through numerous strain maps, intensity heatmaps, histograms and 3-D graphs

Analyzed the effect various linear and non-linear filters have on the accuracy of identifying diffraction spots

Facial Expression Recognition June 2020  
Personal Project Katy, TX

Through guidance from Coursera created a convolutional neural network in python that recognizes 7 different facial expressions in real time video streams

Created a web interface for the trained model using Flask

## Professional Skills

Programming Languages: C++, Python, Java, HTML

Operating Systems: Windows, Linux

Computer Proficiency: Microsoft Office, Google Docs, Web research

## Activities

Tidaltamu – Club Member January 2020-Current  
Routinely discuss and learn about technologies and problems related to data science, specifically machine learning

Taekwondo – Club member August 2019-Current  
Meet several days a week to learn and practice Olympic Taekwondo for tournaments