

# ANDREW DASS

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## EDUCATION

Rutgers University – New Brunswick, NJ

Bachelor of Science in Electrical Engineering, Minor in Mathematics

## SKILLS

- PYTHON
- MATLAB
- C++
- JUPYTER NOTEBOOK
- VISUAL STUDIO
- DATA ANALYSIS

## INTERNSHIPS

ANYBLOCK ANALYTICS GMBH, MAINZ, GERMANY, REMOTE INTERNSHIP

Oct 2020 – Dec 2020

- Worked with Blockchain data experts to analyze cryptocurrencies, specifically Ethereum and xDAI
- Used Anyblock's Blockchain Dashboards by performing Exploratory Data Analysis to analyze Blockchain data and tokens
- Learned to evaluate KPIs with Elasticsearch commands and Anyblock's own Elasticsearch API

## GLOBAL EXPERIENCE

i\_XPERIENCE CAREER SEMESTER, CAPE TOWN, SOUTH AFRICA, REMOTE DATA SCIENCE CLASS

Sept 2020 – Dec 2020

- Intensive Python course taught by certified professors and TAs that covered the following topics:
  - Data Wrangling, Exploratory Data Analysis, Machine Learning, Regression, Classification, Unsupervised Learning

## PROJECTS

ECE VIRTUAL CAPSTONE EXPO, Realtime Onboard Monitoring in Agriculture for Weed Clusters

Sept 2020 – Apr 2021

- Emphasized issue weed clusters or unwanted plants cultivate in areas and takes nutrients from nearby crops from growing
- Solution proposed to use a drone to locate weed clusters by incorporating a computer vision and neural network models to help it identify and detect weed clusters in Realtime or present time
- Tests conducted with software Unreal Engine to emulate crop fields and Microsoft AirSim to program the drone's flight path
- Emulated environments have many crops or objects; drone identifies weed clusters separately from other crops or objects
- Placed 4<sup>th</sup> place among 57<sup>th</sup> competing teams

DATA SCIENCE, Machine Bias in Recidivism

Sept 2020 – Nov 2020

- Performed Exploratory Data Analysis on two jail datasets: "Compas-Scores Data" and "Cox-Violent-Parsed"
- Obtain evidence to support or reject the claim, African American and other ethnic prisoners are being mistreated

BIOMEDICAL TECH & DEVELOPMENT, Using Biomarkers and Biosensors to Treat Macular Degeneration

Oct 2020 – Dec 2020

- Proposed a report explaining how to use Biomarkers and Biosensors to identify and treat Macular Degeneration

## CERTIFICATIONS

IBM PYTHON DATA SCIENCE

June 2020 – July 2020

- Certified Python IBM Courses to effectively teach visualize and analyze data for many applications such as machine learning

AT&T SUMMER LEARNING ACADEMY EXTERN

June 2020 - July 2020

- 80 hours of online learning based on business, leadership and technology from recognized professionals

## JOB EXPERIENCE

BUSCH DINING SERVICES WORKER

Sept 2019 – Mar 2020

- Prepared meals, restocked equipment at work stations, and sanitized the dining area for current and upcoming guests

## COMPETITIVE EXPERIENCE AND STUDENT ORGANIZATIONS

RUTGERS ESPORTS (ELECTRONIC SPORTS): SCARLET SMASH COLLEGIATE

Jan 2019 – Sept 2019

- Selected from Rutgers' Scarlet Smash Club to represent Super Smash Bros Ultimate team for competitive ESports
- Worked with Rutgers students under the team name "Scarlet Smash Collegiate" to compete against other university teams

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS CLUB (IEEE)

Sept 2018 - Present