

# Harshita DIDDEE

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## CAREER OBJECTIVES

I am an inquisitive learner who has always tried to explore challenging new avenues. I strive to achieve a holistic view of the research prospects and the development methods of any project that I work on. I wish to be associated with more community driven projects through open source platforms majorly in the field of data science with projects that give special emphasis to user privacy.

## EDUCATION

**2021** **B.Tech, COMPUTER SCIENCE AND ENGINEERING, Bharati Vidyapeeth's College of Engineering, Delhi**  
**May 2017** > SGPA - 9.57 : III Semester (College Topper)  
CGPA - 9.33

**2017** **Higher Secondary School, , The Heritage School, Vasant Kunj**  
**May 2015** > AISSCE - 95.5% - School Topper  
> Computer Science - 97%

Computer Science | Physics | Chemistry | Mathematics | English

## PROFESSIONAL EXPERIENCE

**May 2019** **Research Intern, IIT DELHI, Celestini Program India, Google and The Marconi Society**  
**August 2019** > Developing a deep learning based model to analyse AQI levels in real time using on device training. Federated learning is used to anonymously improve the global model. Application is released on the Google Playstore.

Federated Learning | Tensorflow Java API | OpenCV | Python

**May 2019** **Lead, WTM-BVP, Bharati Vidyapeeth's College of Engineering, Delhi**  
**May 2020** > Organise and conduct technical workshops to sustain and enhance women participation in the technical community.

Women Community Involvement | Leadership | Team Management

**May 2019** **Volunteer, PyDATA, Delhi**  
**August 2019** > Volunteering as a member of the Sponsorship and Social Media Outreach Team

Community Involvement | Technical Writing

**May 2018** **Teaching Assistant and Core Team Member, DSC-BVP, Bharati Vidyapeeth's College of Engineering**  
**May 2019** > Mentored a group of 11 students in programming Languages and development platforms

Python | Javascript | Ubuntu | HTML | CSS

## SKILLS

Programming Languages	Python, C, C++, Java
Platforms and Frameworks	Tensorflow, Firebase, Shell, Git
Operating Systems	Linux (Ubuntu), Windows

## PROJECTS

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### VISIONAIR

2019 - CURRENT

 <http://vision-air.github.io>

Estimating real time AQI from images.Used federated learning to iteratively diversify the model's response and On Device training to ensure that no private user data is shared.

Tensorflow API for Java Tensorflow Federated Learning OpenCV Firebase

### DO IT RIGHT

2018 - 2019

 <https://github.com/harshitadd/Vihaan.git>

An application that uses pose estimation to compare the live video stream of your exercise routine with a sample video to report any erroneous implementation of the exercise.

Tensorflow OpenCV Flask Flutter

### THIRSTY CROW

2018 - 2019

 <https://github.com/harshitadd/Eyantra-ThirstyCrow-TeamID-972.git>

This project involved the construction of a LFR which engages a custom built electromagnetic arm upon the identification of appropriate aruco markers.

Path Planning in Python OpenCV AVR programming Blender

## HONORS AND AWARDS

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October,19	Paul Baran Young Scholars Celestini Prize India 2019 <i>Team Leader,The Marconi Society,IIT Delhi</i>
October,19	1st Runner's Up at Singapore India Hackathon <i>MHDR, AICTE, Education Ministry of Singapore,IIT Madras</i>
March,19	Winner (Rank 1) at Eyantra National Finals <i>Team Leader,IIT Bombay, MHRD</i>
March,19	Winner at Smart India Hackathon 2019 <i>AICTE, ABB</i>
Feb,19	1st Runner's Up at Vihaan :Paytm Build For India Hackathon <i>Paytm, IEEE DTU</i>