

# Aarsh Verdhan

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**OBJECTIVE** To obtain an internship that will help me to explore new horizons in the field of computer science.

EDUCATION	Degree	College /School	University	Passing Year	Pass Percentage
	BTech.	Delhi Technological University	Delhi Technological University	2021	8.2 (Till Sem III)
	HSC	Sahoday Sr. Sec. School	CBSE	2017	94.0
	SSC	Sahoday Sr. Sec. School	CBSE	2015	9.8 CGPA

## PROJECTS

- Pollinator Bee EYRC-2018*
  - Implemented various control algorithms such as PID using ROS (Python).
  - Implemented various Object detection algorithms using OpenCV (Python).
- Autonomous Underwater Vehicle*

Worked on the software part of the Autonomous Underwater Vehicles "ARYA 1.0" and "VARUNA 2.0"

  - Implemented various object localization algorithms using OpenCV (C++) and Deep Learning.
  - Developed the control stack for the communication of rosnodes using ROS(C++).
- 3D Reconstruction of Stereo images*

Developed a system to generate 3D coordinates of a point from stereo images.

  - Implemented a camera calibrator to get the camera matrix.
  - Implemented the algorithms of pose estimation and depth mapping.
  - Built using OpenCV in python.
- Wallpaper Changer to Spotlight Images (Windows)*

Developed a software to change windows wallpaper to spotlight images.

  - Implemented file handling.
  - Implemented the OS library of python.
  - Built using python.
- Using Mobile Phone to collect IMU and Camera data*

Developed a software to obtain IMU and Camera feeds from a phone using Roslibjs.

-Built using javascript.

6. *Created a chrome extension to manipulate Youtube*

Developed a chrome extension to manipulate youtube eg. skipping ads faster.

-Built using javascript.

7. *Developed an Android app "Anonytter" as anonymous twitter*

Developed an android app to post anonymous tweets.

-Built using java and XML.

8. *Developed an Image Classifier using MNIST dataset*

implementation done using Keras.

-Built using Python.

9. *Built DTU-AUV website*

-Built using Express and MongoDB

10. *Manipulated TurtleSim movement with input signs*

-Built using ROS

11. *Sudoku Solver from image*

-Built using OpenCV and trained MNIST dataset

## RESEARCH AND PUBLICATIONS

## TRAINING AND INTERNSHIPS

- *"Machine Learning" course by Coding Ninjas*
- *"Competitive programming " course by Coding Ninjas*
- *"intro to Nodejs" course by Udacity*

## TECHNICAL SKILLS

- (a) *Programming Languages & Scripts*  
-Python, Nodejs, JavaScript, C/C++
- (b) *Algorithms & Data Structures*
- (c) *Frameworks & Libraries*  
-Tensorflow, Opencv, Keras, matplotlib, Pandas, Bootstrap, Express, Django, ROS (Robot Operating System)
- (d) *Web Technologies*  
-ExpressJs ,MEAN,HTML5, CSS3, Information Retrieval
- (e) *Databases*  
-MongoDB,MySQL

**SOFT SKILLS**

- (a) *Fast Decision Making*
- (b) *Perseverance*
- (c) *Patience*
- (d) *Taking Responsibilities and Leadership role*

**EXTRA  
CURRICULAR  
ACTIVITIES**

- *Secured top 68 ranks in CBSE writing series, 2015*
- *Secured 3rd rank at DTC writing series, 2015*
- *Participated at SAUVC-2017, Singapore*
- *Participated at NIOT-2018, Chennai*
- *Participated at IEEE Extreme, 2018*

**CO  
CURRICULAR  
ACTIVITIES**

- *Participated in various interschool speech and debate competitions*
- *Participated in various quiz competitions*

**PERSONAL  
INFORMATION**

*Father's Name: Anand Verdhan*  
*Mother's Name: Rita Kumari*  
*Sex: Male*  
*Date of Birth: 22nd November 1998*  
*Nationality: Indian*  
*Marital Status: Unmarried*

**DECLARATION** *I here by declare that the above information is true and best of my knowledge*

**DATE** : *17th April 2019*