

Animesh Sahu

PERSONAL DETAILS

<i>Birth</i>	November 3, 1997
<i>Address</i>	1658, Saraswati colony, Jabalpur
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EDUCATION

B.Tech + MS in Electronics and Communication <i>International Institute of Information Technology, Hyderabad</i> CGPA 7.60(till date)	2013 - 2015
Senior Secondary <i>Maharishi vidya mandir, Jabalpur</i> 90.2 percent	2013 - 2015
Secondary <i>Maharishi vidya mandir, Jabalpur</i> CGPA 10	2015

WORK EXPERIENCE

Undergrad Research Research: <i>Robotics Research Centre</i> Research student under Prof. Madhava Krishna, working on Indoor Autonomous Drone and height estimation of buildings from monocular camera and gps through deep learning models thus forming an elevation map of the scene	2018-present
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Teaching Assistant: <i>Electronics Workshop 2, Systems Thinking</i>	2019-present
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Summer Intern(2019): <i>VLEAD Internship(SRIP) Worked as a backend developer creating a web application integrated with rocketchat(opensource, similar to slack) where students can choose their open source project according to their interest and view their performance evaluated by mentors(admin)</i>	May-July
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PROJECTS

Computer Vision <i>Worked on Deep Variational Metric learning and tried to improve upon the limitations of the conventional metric learning Python3, Tensorflow</i>	2019
Robotics:Control and Systems	2019

Worked on Hierarchical Animation Control of Avatars in 3-D Virtual Environments by simulating DARwin-OP in ROS environment. **Python, ROS (Robot Operating System).**

Socket Programming

2019

A file sharing protocol similar to Dropbox with support for download and upload for files and indexed searching. **Python3**

Tunnel rush

2019

A WebGL game in which user can go through ever-changing tunnel packed with all kinds of obstacles. **.Javascript, HTML**

E-commerce Website

2019

An E-commerce website built using Django Frame work. **HTML, CSS, python3, Django**

Text Analyzer

2018

A tool for analyzing text data in Django backend, a simple django project or website in which we can Analyze text. **Python3 , Django**

A Race Car game

2018

A race car game built using pygame. **python3 , Pygame**

Tic Tac Toe Bot

2017

An AI based Tic Tac Toe bot which uses min-max algorithm to ensure the fastest victory possible. **Artificial Intelligence, C++.**

Mobile Robot Path Planning

2017

Given start and goal points of the robot, the path of the robot will be found by the polynomial equation of the curve in a 2 dimensional environment. **Python, C++**

Obstacle Avoiding Bot

2016

-A bot prototype which avoids obstacles in it's path and changes it according to the requirements. **Arduino, C(embedded), Circuit Designs.**

SKILLS

Languages	C, C++, python, GNU/Linux(Bash), Javascript, Django, Flask HTML5, CSS3
Software	MATLAB, L ^A T _E X, VLSI DESIGN, MICRO-CONTROLLERS

RELEVANT COURSEWORK

Computer Science and Mathematics

2016-Present

Data Structures and Algorithms, Computer System Architecture, Algorithms and operating systems, IT Workshop(1-2), Time Complexity Analysis, Graph Theory, Linear Algebra,

Probability and Random Processes, Computer Networks ,SMAI ,Computer Vision, Mobile Robotics

Electronics

2016-present

Signals and Systems, Digital Signal Processing, Embedded Hardware Designs, Digital Logic and Processors, Electronic Workshop(1-2), Linear Electronic Circuits, Electromagnetic Theory and applications, Electronics workshop 1 and 2, Mobile robotics, Information Theory and Coding

WORK SAMPLES

<https://github.com/animeshsahu80>

My Resume: https://github.com/animeshsahu80/My-Resume/blob/master/my_cv.pdf