

**ATHARVA MAHESHWARI DHARWA**Course : **B.E. (Hons.)**, Electronics and Communication Engineering, 2021

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CGPA : 8.06



Subjects / Electives	C programming, Embedded System Design, Computer Architecture, Microprocessors, Digital Signal Processing, Digital Design, Probability and statistics, Information Theory and Coding
Technical Proficiency	C++ Language, C Programming, Python3, HTML + CSS, PHP, Machine Learning, Embedded Systems, Web Development, Raspberry Pi, Analytical Skills

SUMMER INTERNSHIP / WORK EXPERIENCE	
Research Intern, CEERI Pilani	Jul 2020 - Dec 2020
Assisted a senior scientist in detecting & classifying steel defects in manufacturing using Machine Learning & Deep Learning models.	
◦ Used LBP, LTP, CLBP, AECLBP for feature extraction with various classifiers to achieve the validation accuracy of 98.78%	
◦ Used CNN with Class Activation Map (CAM) to build an improved model with a validation accuracy of 98.89%	
CEO, SiteX DigiTech	Nov 2019 - Nov 2020
◦ Lead the sales team and acquired 10+ clients . Managed over 50+ people for various client projects	
◦ Worked with PHP, MySQL, Python, HTML, CSS for formal IT projects and home projects to automate social media in order to increase the online presence of the company	
◦ Built and deployed several websites for companies and start-ups	
IT Intern, Pyrotech Electronics Pvt. Ltd	May 2019 - Jul 2019
Designed a medicine vending machine using Python to simulate the model	

PROJECTS	
Detection of Sleep Apnea using Machine Learning on Heart Rate and Pulse Oximetry Markers - IT	Jan 2021 - May 2021
*Research Paper in process in journal 'Computer Methods and Programs in Biomedicine' with manuscript no. 'CMPBUP-D-21-00538'	
Objectives of the study are:	
(i) analyse the performance of machine learning classifiers on a dataset with heart rate and pulse oximetry markers	
(ii) assess the usefulness of trained machine learning models to detect apneic events on new data, using cross-dataset validation	
(iii) assess the significance of age as a feature, on the performance of machine learning classifiers.	
G1 Sanjeevni App - IT	Apr 2021 - May 2021
Developed a Flutter App for COVID relief and launched it in playstore	
◦ The app aimed to provide various verified COVID leads for resources such as oxygen, ICU beds, plasma etc.	
◦ The app scrapped data from various online resources and presented it in a user friendly manner	
Digital Vending Machine (DiVe) - IT, Electronics and Mechanical	Apr 2018 - Mar 2020
◦ Spearheaded a team of 5 to win multiple competitions like Quark open showcase event and CTE pitching contests	
◦ Secured numerous fundings from the Institute, Sandbox Lab, EEE department, CTE worth Rs. 1 lakh+	
◦ The project aimed to resolve the existing mechanical and technical problems associated with the current vending machines in the market	
◦ Created a foolproof dispensing mechanism, digitized all the payments and reduced the cost of a vending machine by up to 90%	
◦ Technology used: Python (Selenium browser automation, GUI creation), Solidworks (model designing), Raspberry Pi	

AWARDS AND RECOGNITIONS	
Received EEE funding for project "Accident detection with NavIC" EEE department, BITS Pilani	Apr 2019
◦ Got awarded with the prestigious EEE funding for 3 consecutive times worth Rs. 60,000	

POSITION OF RESPONSIBILITY	
Coordinator - Peer Mentorship Program	Apr 2019 - Jul 2020
◦ Interviewed and shortlisted 100+ mentors who aided the incoming batch of juniors in their academic life at BITS	
◦ Organized meetings throughout the year involving the mentors and mentees to ensure satisfaction	
◦ Interviewed 20+ applicants through a rigorous interview process to lead the PMP program for the upcoming academic year	

ACADEMIC DETAILS				
COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	Indore Public School	CBSE	90 %	2017
CLASS X	Xi'an International School	IB	99.08 %	2015

LANGUAGES KNOWN	
Chinese, English, Hindi	