

# Abhijeet Bhattacharya

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<b>Education</b>	<b>Bharati Vidyaapeeth's College of Engineering</b> B.Tech. in Electrical and Electronics	2017-Present CGPA 7.394/10
	<b>DLDAV Pitampura,</b> 12 <sup>th</sup>	Jul. 2017 C.B.S.E, 90%
<b>Experience</b>	<ul style="list-style-type: none"><li>• <b>Remote Research Intern</b> Electrical Department, NIT AP Advisor: Dr. Sri Phani Krishna Karri</li><li>• <b>Summer Research Intern</b> Swaayatt Robots, Bhopal</li><li>• <b>Project Intern</b> Kausheleisen Company</li><li>• <b>Workshop Head</b> Innovicon, AI Conference</li><li>• <b>Winter Intern</b> CSIR-CEERI (NewDelhi) Advisor: Manoj Sharma</li><li>• <b>Technical Head</b> WieHack, Women Hackathon</li><li>• <b>Trainee</b> Embedded Systems, IQB Solutions, Delhi</li></ul>	May 2020—Sept 2020  May 2019—August 2019  March 2019—April 2019  2 Feb 2019—3 Feb 2019  December 2018—Jan 2019  4 Oct. 2018  May 2018—Aug 2018
<b>Positions of Responsibility</b>	<ul style="list-style-type: none"><li>• R.A.U. Head (Robotics and Automation United Head)</li><li>• Robotics Chapter Representative<ul style="list-style-type: none"><li>• Took workshops in College in programming concepts on Arduino/Raspberry, Image Processing and Robotics to 100+ students.</li></ul></li></ul>	June - Dec 2019 April 2018 - April 2019
<b>Awards and Scholarships</b>	<ul style="list-style-type: none"><li>• 1<sup>st</sup> runner up in Drones Ideathon I.I.T. Roorkee</li><li>• Winner in the East-India's Largest Hackathon HACK-A-BIT organised by BIT-MESRA(URL: <a href="#">LINK-CLICK HERE</a>)</li><li>• Top 20 in <b>eYantra - National Robotics Competition, IIT Bombay</b></li><li>• Ranked 320 in <b>IEEE XTreme Hackathon</b></li><li>• Winner in the Rajasthan Digifest Hackathon 5.0 organised by Rajasthan Government.Award Ceremony (2:37:00) (URL: <a href="#">LINK</a> )(URL: <a href="#">LINK</a> )(URL: <a href="#">LINK</a> )</li></ul>	2019 2018 2018 2018 2017
<b>Technical Projects</b>	<ul style="list-style-type: none"><li>• <b>"Remote Sensing, Satellite Imaging"</b> Research project.</li><li>• <b>"Prediction of epileptic seizures using EEG signals using CNN+LSTM model"</b> Research Project.</li><li>• <b>"Prediction of epileptic seizures using EEG signals using Transformer model"</b> Research Project.</li><li>• <b>"Emotion Recognition"</b> Using CNN to differentiate 5 emotions.</li></ul>	2020 2020 2020 2019

	<ul style="list-style-type: none"> <li>• <b>“Image Segmentation from Space”</b> Using CNN, VGG. 2019</li> <li>• <b>“Object Detection”</b> Using YOLO, Mask-RCNN. 2019</li> <li>• <b>“Optical flow”</b> Using Lucas Kanade method. 2019</li> <li>• <b>“Depth Mapping”</b> Using pixel shift on two Cameras. 2019</li> <li>• <b>“Semantic Segmentation”</b> for Indian Road data-sets 2019</li> <li>• <b>“CRF”</b> for segmented images 2019</li> <li>• <b>“CARLA”</b> For data-set collection for semantic segmentation 2019</li> <li>• <b>“Speech to words”</b> on Raspberry-pi 2019</li> <li>• <b>“Nutty Squirrel”</b> For Eyantra Competition 2019</li> <li>• <b>“Handy”</b> An Integrated deaf and mute conversation smart alert system 2018</li> <li>• <b>“Venom”</b> Snake-bot for disasters 2017</li> <li>• <b>“Attendance”</b> Attendance based on bio-metric system 2018</li> <li>• <b>“Snakebot”</b> A robot based on movement of snake. 2018</li> <li>• <b>“Many Robotic Cars”</b> Using Arduino, Bluetooth, Mobile. 2017</li> <li>• <b>“Home Automation”</b> Using Arduino, ESP. 2017</li> </ul>
<b>Publications</b>	<ul style="list-style-type: none"> <li>• <b>A. Bhattacharya</b>, T. Baweja, Dr SPK Karri 2020, “Epileptic seizure prediction using deep transformer model” Int. J. Neural Syst. Under Review.</li> <li>• <b>A. Bhattacharya</b>, T. Baweja, S. Garg 2020, “Automatic Seizure Prediction using CNN and LSTM” Neural Networks. Under Review.</li> <li>• <b>A. Bhattacharya</b>, T. Baweja 2020, “Clear-View: A dataset for missing data in RemoteSensing Images.” IEEE 19th World Symposium on Applied Machine Intelligence and Informatics Under Review.</li> </ul>
<b>Skills and Tools</b>	<p><b>Technologies :</b> Machine Learning, Deep Learning, Computer Vision, Image Processing, Linear Algebra, Probabilistic Analysis, Micro-controllers and processors</p> <p><b>Languages :</b> English, Hindi, Bengali (Spoken).</p> <p><b>Programming Languages :</b> C/C++, Embedded C, Python, MAT-LAB, Open-CV, LaTeX</p> <p><b>Softwares :</b> Blender, Vrep, Proteus, XCTU, AVR Studios, Atmel Studios, Adobe Photoshop.</p>
<b>References</b>	<ul style="list-style-type: none"> <li>• <b>Dr. Sri Phani Krishna Karri</b> Asst Prof - E.E NIT, AP Email: phani.moresmiles@gmail.com</li> <li>• <b>SANJEEV SHARMA</b> CEO of Swaayatt Robots Email: sanjeevsharma@swaayatt-robots.com</li> <li>• <b>Dr. KUSUM THARANI</b> HoD, E.E.E. dept. BVCOE Email: kusum.tharani@bharatividyaapeeth.edu</li> <li>• <b>SANDEEP BANERJEE</b> Asst Prof- E.E.E. BVCOE Email: sandeepbanerjee25@gmail.com</li> </ul>