

Abhijeet Bhattacharya

Contact Information

Flat number 71 Vidya Vihar
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[Personal website - Click here](#)

Education

Bharati Vidyaapeeth's College of Engineering
B.Tech. in Electrical and Electronics

2017 - Present
CGPA 7.65/10

DLDAV Pitampura,
Class XIIth, CBSE

April 2017
C.B.S.E, 90%

Experience

- **Computer Vision Research Intern** Present—Nov 2020
[CSIR-CEERI, Delhi](#)
Advisor: Mr. Pramod Kumar Tanwar
- **Remote Research Intern** May 2020—Sept 2020
[Electrical Department, NIT AP](#)
Advisor: Dr. Sri Phani Krishna Karri
- **Summer Research Intern** May 2019—August 2019
[Swaayatt Robots, Bhopal](#)
- **Project Intern** March 2019—April 2019
[Kausheleisen Company](#)
- **Workshop Head** 2—3 Feb 2019
[Innovicon, AI Conference](#)
- **Winter Intern** December 2018—Jan 2019
[CSIR-CEERI \(NewDelhi\)](#)
Advisor: [Manoj Sharma](#)
- **Technical Head** 4—5 Oct. 2018
[WieHack, Women Hackathon](#)
- **Trainee** May 2018—Aug 2018
[Embedded Systems, IQB Solutions, Delhi](#)

Publications

- **A. Bhattacharya**, T. Baweja, Dr SPK Karri 2020, "Epileptic seizure prediction using deep transformer model" Int. J. Neural Syst. [Under Review.](#)
- T. Baweja*, **A. Bhattacharya***, Dr K. Tharani, S. Garg, 2020, "Automatic Seizure Prediction using CNN and LSTM" Medical Biological Engineering Computing. [Under Review](#)
- **A. Bhattacharya**, T. Baweja 2020, "Clear-View: A dataset for missing data in RemoteSensing Images." IEEE 19th World Symposium on Applied Machine Intelligence and Informatics. [Video](#) [Accepted.](#)
- **A. Bhattacharya**, Sandeep Banerjee, Saksham Girotra, Hridesh Shukla, Gaurang Bhardwaj, Sidharth Talia. Simulation and Design of PI-Controller for the Control of Buck Converter. Journal of Microelectronics and Solid State Devices. 2020; 7(1): 2633p. [Link](#) [PDF](#)

Ongoing projects

- **DeepFiller**: A Computer Vision research project for Image Inpainting.
- **DepthPrediction** A Computer Vision project to predict the depth in an image using a monocular video.

Positions of Responsibility	<ul style="list-style-type: none"> • R.A.U. Head (Robotics and Automation United Head) June - Dec 2019 • Robotics Chapter Representative April 2018 - April 2019 <ul style="list-style-type: none"> • Took workshops in College in programming concepts on Arduino/Raspberry, Image Processing and Robotics to 100+ students.
Awards	<ul style="list-style-type: none"> • Finalist and got shortlisted in TOP 5 of the IISF event (Virtual) 2020 • 1st runner up in Drones Ideathon I.I.T. Roorkee 2019 • Winner in the East-India's Largest Hackathon HACK-A-BIT organised by BIT-MESRA (Award)(News) 2018 • Top 20 in eYantra - National Robotics Competition, IIT Bombay 2018 • Ranked 320 in IEEE XTreme Hackathon 2018 • Our Snake-bot got a funding of \$22,000 from Rajasthan Government. 2017 • Winner in the Rajasthan Digifest Hackathon 5.0 organised by Rajasthan Government.Award Ceremony (2:37:00) (URL: Award Ceremony)(Twitter)(News) 2017
Technical Projects	<ul style="list-style-type: none"> • "Emotion Recognition" Using CNN to differentiate 5 emotions. 2019 • "Image Segmentation from Space" Using CNN, VGG. 2019 • "Object Detection" Using YOLO, Mask-RCNN. 2019 • "Optical flow" Using Lucas Kanade method. 2019 • "Depth Mapping" Using pixel shift on two Cameras. 2019 • "Semantic Segmentation" for Indian Road data-sets 2019 • "CRF" for segmented images 2019 • "CARLA" For data-set collection for semantic segmentation 2019 • "Speech to words" on Raspberry-pi 2019 • "Nutty Squirrel" For Eyantra Competition 2019 • "Handy" An Integrated deaf and mute conversation smart alert system 2018 • "Venom" Snake-bot for disasters 2017 • "Attendance" Attendance based on bio-metric system 2018 • "Snakebot" A robot based on movement of snake. 2018 • "Many Robotic Cars" Using Arduino, Bluetooth, Mobile. 2017 • "Home Automation" Using Arduino, ESP. 2017
Skills and Tools	<p>Technologies : Machine Learning, Deep Learning, Computer Vision, Image Processing, Linear Algebra, Probabilistic Analysis, Micro-controllers and processors</p> <p>Languages : English, Hindi, Bengali (Spoken).</p> <p>Programming Languages : C/C++, Embedded C, Python, MAT-LAB, Open-CV, LaTeX</p> <p>Softwares : Blender, Vrep, Proteus, XCTU, AVR Studios, Atmel Studios, Adobe Photoshop.</p>
References	<ul style="list-style-type: none"> • Dr. Sri Phani Krishna Karri Asst Prof - E.E NIT, AP Email: phani.moresmiles@gmail.com • Sanjeev Sharma CEO of Swaayatt Robots Email: sanjeevsharma@swaayatt-robots.com • Dr. Kusum Tharani HoD, E.E.E. dept. BVCOE Email: kusum.tharani@bharativedyapeeth.edu • Sandeep Banerjee Asst Prof- E.E.E. BVCOE Email: sandeepbanerjee25@gmail.com