

Abhijeet Bhattacharya

Contact Information	Flat number 71 Vidya Vihar Rohini Sec-9 New Delhi, 110085 India	Contact : +91 8527801920 E-Mail id : bhattacharya399@gmail.com Github : https://github.com/Abhijeet399 Personal website - Click here
Education	Bharati Vidyaapeeth's College of Engineering B.Tech. in Electrical and Electronics DLDAV Pitampura, Class XII th	2017-Present CGPA 7.394/10 Jul. 2017 C.B.S.E, 90%
Experience	<ul style="list-style-type: none">• Remote Research Intern Electrical Department, NIT AP Advisor: Dr. Sri Phani Krishna Karri• Summer Research Intern Swaayatt Robots, Bhopal• Project Intern Kausheleisen Company• Workshop Head Innovicon, AI Conference• Winter Intern CSIR-CEERI (NewDelhi) Advisor: Manoj Sharma• Technical Head WieHack, Women Hackathon• Trainee Embedded Systems, IQB Solutions, Delhi	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
Positions of Responsibility	<ul style="list-style-type: none">• R.A.U. Head (Robotics and Automation United Head)• Robotics Chapter Representative<ul style="list-style-type: none">• Took workshops in College in programming concepts on Arduino/Raspberry, Image Processing and Robotics to 100+ students.	June - Dec 2019 April 2018 - April 2019
Awards and Scholarships	<ul style="list-style-type: none">• 1st runner up in Drones Ideathon I.I.T. Roorkee• Winner in the East-India's Largest Hackathon HACK-A-BIT organised by BIT-MESRA(URL: LINK-CLICK HERE)• Top 20 in eYantra - National Robotics Competition, IIT Bombay• Ranked 320 in IEEE XTreme Hackathon• Winner in the Rajasthan Digifest Hackathon 5.0 organised by Rajasthan Government.Award Ceremony (2:37:00) (URL: LINK)(URL: LINK)(URL: LINK)	2019 2018 2018 2018 2017
Technical Projects	<ul style="list-style-type: none">• "Remote Sensing, Satellite Imaging" Research project.• "Prediction of epileptic seizures using EEG signals using CNN+LSTM model" Research Project.• "Prediction of epileptic seizures using EEG signals using Transformer model" Research Project.• "Emotion Recognition" Using CNN to differentiate 5 emotions.	2020 2020 2020 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

Publications

- **A. Bhattacharya**, T. Baweja, Dr SPK Karri 2020, “Epileptic seizure prediction using deep transformer model” Int. J. Neural Syst. Under Review.
- **A. Bhattacharya**, T. Baweja, S. Garg 2020, “Automatic Seizure Prediction using CNN and LSTM” Neural Networks. 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 Under Review.
- **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](#)

Skills and Tools

Technologies : Machine Learning, Deep Learning, Computer Vision, Image Processing, Linear Algebra, Probabilistic Analysis, Micro-controllers and processors

Languages : English, Hindi, Bengali (Spoken).

Programming Languages : C/C++, Embedded C, Python, MAT-LAB, Open-CV, LaTeX

Softwares : Blender, Vrep, Proteus, XCTU, AVR Studios, Atmel Studios, Adobe Photoshop.

References

- **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
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- **SANDEEP BANERJEE** Asst Prof- E.E.E. BVCOE
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