Abhijeet Bhattacharya

Contact Information	Rohini Sec-9 New Delhi, 110085 India	Contact : +91 8527801920 E-Mail id : bhattacharya399@gmail.com Github | LinkedIn | Webpage

Education

Guru Gobind Singh Indraprastha University B.Tech. in Electrical and Electronics	2017 - 2021 CGPA 7.85/10
DLDAV Pitampura, Class XIIth, CBSE	April 2017 C.B.S.E, 90%

Experience

- **IIIT Hyderabad Summer School of AI** — 2 Aug, 2021—31 Aug, 2021
  Attendee
- **Computer Vision Research Intern** — Jan 2021—Aug 2021
  CSIR-CEERI, Pilani (Project on hold)
  Advisor: Mr. Pramod Kumar Tanwar
- **Research Intern** — Dec 2020—March 2021
  Electrical and Electronics Department, BVCOE
  Advisor: Dr. Kusum Tharani
- **Remote Research Intern** — May 2020—Nov 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.

Positions of Responsibility	• Head of Publication team, Techudyam 2021, National level Symposium	June 15-16, 2021
	• R.A.U. Head (Robotics and Automation United Head)	May 2019 - June 2020
	• Robotics Chapter Representative	April 2018 - April 2019

Awards	• **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 Award Ceremony Media	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) Award Ceremony Twitter Media	2017

Technical Projects	• **"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

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** Email: phani.moresmiles@gmail.com	Asst Prof - E.E NIT, AP
	• **Sanjeev Sharma** Email: sanjeevsharma@swaayatt-robots.com	CEO of Swaayatt Robots
	• **Dr. Kusum Tharani** Email: kusum.tharani@bharatividyapeeth.edu	HoD, E.E.E. dept. BVCOE
	• **Sandeep Banerjee** Email: sandeepbanerjee25@gmail.com	Asst Prof- E.E.E. BVCOE