Sayantan Bhattacharya

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EDUCATION

AMITY UNIVERSITY

BTech in Electronics and Communication
Expected June 2020 | Noida, UP, India
Cum. GPA: 8.64 / 10
Highest SGPA :9.12 / 10

Intermidiate
May 2015 | New Delhi, India
DL DAV Model School
Pitampura
Top 10 students
Cum. GPA: 91.6 / 100.0
Major Cum. GPA: 10 / 10

Matriculate
May 2013 | New Delhi, India
DL DAV Model School
Pitampura
Cum. GPA: 10 / 10.0

LINKS

Github:// Sayantan17
LinkedIn:// Sayantan Bhattacharya
YouTube:// Sayantan BH.
Skype:// sayantan09

UNDERGRADUATE

Digital Electronics
Analog Communication Signal Systems
Circuit Theory Artificial Intelligence + Practicum
Object Oriented Programming
Image Processing
(Research Asst.)
Electronics Devices and Circuits
Numerical Methods and Optimisation
Basic Electronics Engineering
Cellular Communication Theory
VHDL

SKILLS

PROGRAMMING

Over 500 lines:
Deep Learning • Keras • Tensorflow • MATLAB
Biomedical Image Processing • Python • LaTeX
Over 500 lines:
C • Python • Bash • Open CV • VHDL* • Verilog*
Familiar:
Windows OS • Machintosh • Android • iOS

EXPERIENCE

DEFENSE RESEARCH DEVELOPMENT ORGANISATION | Summer Intern

June 2018 – July 2018 | LASTEC, New Delhi

- Worked on various defense algorithms with the help of Laser DIODES that includes LASER Technology that is used in Military applications.

PROJECTS

OBJECT DETECTION FROM PHOTOS USING DEEP LEARNING OBJECT DETECTION(SNAPCHAT FILTERS) |Amity University

Winter 2018

- Using TensorFlow for detection of objects,Usage of CNNs,Objects / Images of Real Life were used,Usage of VGG-16 Architectures, Usage of CNNs.Usage of Open-CV based concepts for segmentation and detection algorithms.

GERMAN TRAFFIC SIGN DETECTION |Amity University

Winter 2018

- Using TensorFlow for detection of objects,Usage of CNNs,Objects / Images of Real Life were used.

IMAGE CAPTIONING ALGOTITHM |Amity University|Advisor-Dr.Partha Sarathi Mangipudi

summer 2018-

- Usage of real time surrounding object is being used,along with keras and VGG-16 Architectures.Usage of tokenizer,NLTK.The accuracy of 31.6 Percent is achieved for just 5 EPOCHS for training set.

RESEARCH

BIOMEDICAL IMAGE PROCESSING |Undergrad Research

August 2017 – Present | Amity University,Noida

Working with Prof Ms.Anupama Bhan to develop the methods of segmentation of biomedical images and created a hybrid segmentation methods , a method which uses image processing methods for detection of malaria. Publication submitted.

IMAGE PROCESSING |Undergrad Research

August 2017 – April 2018 | Amity University,Noida

Worked with Prof Dr. MK Dutta to create Comupter Vision, algorithm which is rotation invariant for macula detection which is then further used as a function in the detection of red lesions in Digital Fundus Images that is used for grading of severity of the macula disease. Publication issued in 41st International Conf. on TSP(IEEE)

AWARDS

2015	top 10/130	Students in School batch securing 10/10 CGPA.
2015	top 10/130	Students in School batch securing above 90 Percent CGPA.
2017	1st Year UG	50 Percent Merit Scholarship.
2017	top 4/90	First Year UG.
2018	2nd Year UG	50 Percent Merit Scholarship.

PUBLICATIONS

2018 "CV method for grading of the health of a fundus image".IEEE-TSP,Greece.
2018 "Hybrid Segm. of Malaria Infected Cells in Thin Blood Slide Images" [Not Published].
2018 "An Algo. for Rotn Invariant Auto. Macula localzn in DF Eye Images".APPIS-Spain.