 **INDIAN INSTITUTE OF TECHNOLOGY, BHUBANESWAR भारतीय प्रौद्योगिकी संस्थान, भुवनेश्‍वर**

Gourav Barnwal

Bhubaneswar, 752050 | 8250700654 | gb12@iitbbs.ac.in

# EDUCATION

## B. TECH | Mechanical Department | 2016-20 | IIT BHUBANESWAR

· CGPA: 7.26

## AISSCE (CLASS 12) | 2015 | BHAGAT P. SR. SEC. SCHOOL, KOTA

· Percentage: 75.2

## AISSCE (CLASS 10) | 2013 | PT. B P SARASWATI VIDYA MANDIR, BOKARO

· CGPA: 9.6

# PROJECTS

## VIOLENCE DETECTION ON MULTIMEDIA (MAY 2019 – JULY 2019)

· Worked under Saurabh Shaligram Head of AI department at Makers Lab, Tech Mahindra.

· Developed a working model to detect adverse effect in a live stream video by using Yolov3 and Faster-RCNN architecture and tried to develop a key network to define the blood scene.

· Required experience of GoogleColab and TensorFlow.

## PREDICTIVE MAINTENANCE OF SENSORS IN PHARMACEUTICAL INDUSTRY (SIH-2019)

· Predictive maintenance of equipment with sensors, tracking operating conditions and performance of machines, predicting breakdown, malfunctions and recommending preventive actions.

· Required Experience of manufacturing process sensors, Python-tkinter Library for UI design and regressive machine learning algorithm.

## DATA SEGREGATION AND CLASSIFICATION (SEPTEMBER 2018 – OCTOBER 2018)

· Worked under the guidance of Dr BRAHMA DEO.

· Developed a prediction model to check classification steel plant toxic gases using multivariate regression and RSVM.

· Required Experience of matplotlib, pandas’ packages of python.

## PING-PONG GAME (OCTOBER 2017 – DECEMBER 2017)

· Developed a browser-based PING PONG game for presentation on Neuromancer programming club of IIT Bhubaneswar.

· Required Experience of Oops concept in python and use of python library like OS, turtle and pygame.

# SKILLS & ABILITIES

## TECHNICA­­L

· Programming Languages: C++, MATLAB and Python.

· Circuital: Arduino, Raspberry-Pie (Basic).

· Programs: AutoCAD, Fusion 360, Solid works, Ansys, Adobe Photoshop.

## LEADERSHIP

· Represent our team in several competition like: EGGLORIOUS Battle (Won 1.5 Lakh grant for project) at IIT Bhubaneswar, TECHFEST at IIT Bombay and SIH at Oriental University, Indore.

## MANAGEMENT

· Publicity Team member of the Entrepreneurship Conclave of the institute.

· Sponsorship CORE Team member of the Entrepreneurship Conclave of the institute.

· Volunteer for the Inner Engineering Program at Isha Yoga Centre, Bhubaneswar.

## COMMUNICATION

· Delivered presentations as a part of the Project seminar course on “Piezo-electric material­­ and its deployment in wind turbine” and got excellent.

# EXTRA COURSES

· Machine Learning and Deep Learning course by Andrew NG from Sandford University.

· Mathematics for machine learning from Imperial College London.

· R programming for data analytics from Johns Hopkins University.

· CNC Programming with G code.

· Finite element method and perspective through developer in MATLAB.

# ACHIEVEMENTS

· Secured 2nd rank in SIH-Smart India Hackathon-2019 organised by MHRD, INDIA at Oriental University.

· Secured 1st rank in EGGLORIOUS BATTLE (Product Design) in 2016 at IIT Bhubaneswar.

· Secured 6th rank in Crane-O-Mania (Crane design) in 2018 at IIT Bombay.

· Secured AIR 9447 in JEE (Advanced) 2016.

# EXTRA CURRICULAR

· Regular book reader on Human Psychology, Philosophy and Spirituality.

· Quora writer with around 61k views on my answer.

· Table tennis and Chess player.