# Kaustav Ghosh

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B. Tech in Computer Science & Engineering 2018 - 2022

CGPA: 8.3



## **INTERNSHIPS**

- Microsoft Student Partners-Machine Learning Internship
- -Guided a team of 10 individuals to collaborate and accomplish a Regression task of price prediction of used cars in the machine learning pipeline through Exploratory Data Analysis, Feature Engineering and Model Building.
- Qbotics Labs Robot Operating System Internship
- Constructed a Differential Drive with caster wheel from scratch using URDF and XACRO files and mounted the same with laser scanner, IMU and Velodyne Puck VLP-16 Lidar and simulated the same in Gazebo and Webots
- United Nations TakenMind-Global Data Analytics Internship
  - Scripted a personal version of Numpy and Pandas Documentation
  - Performed Exploratory Data Analysis techniques using Matplotlib and Seaborn
  - Created several boxplots, countplots, heatmaps of several datasets
- Ineuron Deep Learning with Computer Vision and Natural Language Processing Internship
  - Currently learning CNNs and RNNs

## ACADEMIC PROJECTS

- Finland Labs in association with NSS IIT Roorkee Covid 19 Data Analysis, Time Series Forecasting and Web Scraping
  - Prepared a complete Data Analysis report on the World-wide COVID-19 attack statistics and used the Facebook's fbprophet Time-series Forecasting library to speculate the number of active corona victim cases in the upcoming days.
- Food Labs Robotics Startup Interview ROS Engineer Role
  - Designed, modelled, constructed and Assembled a plethora of sensors and Robots across multiple software platforms like freeCad, Blender, Gazebo and also fabricated a Defense Building from scratch using floor plan and Gazebo World Editor
- Analysis of Selective Compliance Assembly Robot Arm and Modelling of T3R Robot
  - Computed DH parameters for the SCARA robot and used it to formulate the Forward and Inverse Kinematics of the robot arm. Also formulated Lagrange Euler Dynamics

## POSITIONS OF RESPONSIBILITY

Local Committee Member of IOSD(International Organization of Software Developers)

## COURSES TAKEN

Coding Ninjas- Completed C++ & Data Structures. Currently doing Algorithms & Competitive Programming Course. NPTEL-Basic Electronics, Switching Circuits & Logic Design, Computer Organization & Architecture, OOP with Java

## TECHNICAL SECTION

Softwares Used: Anaconda, AutoCAD, Matlab, Keil, Altera MaxPlus 2, VirtualBox, Vm Ware, Oracle SQL, VS Code & Sublime Text Programming Languages: Fluent in C/C++, Familiar with Java & Python, Verilog, LATEX, Linux Shell Scripting, fair acquaintance with ARM assembly programming (NXP LPC 1768)

Libraries & Frameworks: C++-STL Java-JavaFX GUI Python-Numpy, Pandas, SciPy, Scikit-Learn, Matplotlib, Keras, Tensorflow

Operating Systems Used: Windows-XP, Vista, 7,10 Linux-Ubuntu