


ASHISH KUMAR GAURAV

 [linkedin.com/in/ashish-gaurav](https://www.linkedin.com/in/ashish-gaurav)

 +91 9509940509

 ashishkg0022@gmail.com

EDUCATION

2016 - 2021(July) | **Indian Institute of Technology Kharagpur**
CGPA : 8.58/10 | Integrated Master of Science in **Mathematics and Computing**

EXPERIENCE

- July 2020 | **Microsoft, India Development Center | Software Engineer Internship**
May 2020 | Worked on prediction analysis of Top of rack (ToR) devices, as a part of Azure Networking Team.
 > Collected and processed various types of signal data.
 > Designed a comparative analytical method for analysing signals in different time ranges.
 > Researched and developed a predictive model to predict ToR device reboot before it happens.
 Predictive Analysis | Machine Learning | Network Data | Python
- March 2020 | **AwI, Inc. Japan | Remote Internship - Part Time**
October 2019 | AwI, Inc is a Japanese company, working on Artificial Intelligence in retail stores.
 > Developed a computer vision model for person re-identification.
 > Researched and prepared models for age and gender estimation from facial images.
 > Successfully ran these models on various edge devices.
 Computer Vision | Deep Learning | Caffe | Keras
- July 2019 | **AwI, Inc. Japan | Artificial Intelligence Internship**
May 2019 | > Created an algorithm to select images for training using Autoencoders and Clustering, which enhanced the performance of semi-supervised learning.
 > Developed an user-interactive visualisation tool for visualising distribution of images using Autoencoders, t-SNE and scatter plot.
 Computer Vision | Autoencoder | Data Visualisation | Keras | Matplotlib
- August 2018 | **Google Summer of Code 2018 | Student Developer**
May 2018 | As a part of this program, worked on SymPy. SymPy is a python library for symbolic mathematics.
 > Improved SymPy by adding new features and fixing bugs.
 > Structured and implemented rule based integration in python as a sub-module of SymPy.
 > Wrote parsers which automatically generate rules and test-cases in python from mathematica rules.
 Python | Mathematica | Parsers | Object Oriented Design
- May 2019 | **Kharagpur RoboSoccer Students' Group | Software Team Member**
March 2017 | The aim of this group is to research on autonomous soccer-playing robots and participate in international competitions like Robocup.
 > Contributed to the development of software architecture for controlling autonomous bots.
 > Implemented variations of RRT (Rapidly-exploring random trees) in path planning.
 > Developed an interactive simulator in PyQt with current state of game and various user control.
 > Implemented a fuzzy logic based multi agent passing.
 Robot Operating System | C++ | Python | Qt

SKILLS AND INTERESTS

Programming Languages C, C++, Python
Tools and Libraries Git, OpenCV, Keras, Tensorflow, Caffe, Pandas, Scikit Learn, Qt, Docker
Interests Data Science, Machine Learning, Software Development, Computer Vision