

# ANANYE PANDEY

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## EDUCATION

- **Columbia University** Aug 2019 – Dec 2020  
**MS in Electrical Engineering** New York, NY  
GPA: 3.59/4
- **Manipal Institute of Technology** Aug 2014 – Jul 2018  
**BTech in Electronics and Communication Engineering** Manipal, KA, India  
(Minor Specialization in Signal Processing) CGPA: 9.04/10

## PROFESSIONAL EXPERIENCE

- **Columbia University** New York, NY  
**Research Assistant** Jun 2020 – Aug 2020
  - Implemented various Deep Learning models and inference machines on TensorFlow, PyTorch and TensorRT for object detection in real time through IoT.
  - Determined backend, software and best detection model based on profiling the inference machines upon deployment.
- **OSRAM Opto Semiconductors** Regensburg, DE  
**Process Development Engineer** Aug 2018 – Jul 2019
  - Improved production efficiency of “Laser Diode Testing System” by 8% using MATLAB and Python for optimization of laser far-field imaging system using Machine Learning in the production line.
  - Supervised new laser diode production and development.
- **OSRAM Opto Semiconductors** Regensburg, DE  
**Student Intern** Mar 2018 – Jul 2018
  - Developed a system to test laser diodes at high currents for production and implemented this system in the production line.
  - Carried out testing of laser diodes, analyzed image data on MATLAB and developed my own Machine Learning to sort good and bad produce.
- **OSRAM Opto Semiconductors** Sunnyvale, CA  
**Student Intern** Jun 2017 – Jul 2017
  - Developed a system to test the response of photodiodes to infrared light for the HTC Vive Project.
  - Characterized heartrate monitoring diodes using a sensor board and Labview for direct customer-client sales.
- **OSRAM Opto Semiconductors** Regensburg, DE  
**Student Intern** Jun 2016 – Jul 2016
  - Developed a system for more efficient characterization of infrared photodiodes based on performance under different ambient conditions, implemented company-wide.

## SKILLS AND CERTIFICATIONS

- Python, C/C++, SQL, CUDA, OpenCL, OpenCV, MATLAB, TensorFlow, PyTorch, TensorRT, DeepStream, Solidity, LabVIEW, R

## ACTIVITIES AND AWARDS

- Played for and led the Manipal soccer team at a national level.
- Was part of the organizing team of college festivals and concerts