

ANANYE PANDEY

ap3885@columbia.edu | (347) 276 7609 | <https://www.linkedin.com/in/ananyepandey/> | [ap3885.github.io](https://github.com/ap3885)

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.

SELECTED PROJECTS

- **Street View Number Recognition** Columbia University
 - Developed a modified Convolutional Neural Network (CNN) on Python to detect house numbers from street view images using TensorFlow on Python.
 - Prediction results at 92.46% was just slightly greater than the human average.
- **ICU Mortality Prediction** 2020
 - Used the result of stacking various Machine Learning algorithms like Logistic Regression, Clustering, Random Forests and SVMs in Python to predict multi-hospital ICU mortality rates within the first 24 hours of admission.
 - Secured an international top 20% with a test prediction accuracy of 90.6%
- **Parallel implementation of Principal Component Analysis** Columbia University
 - Implemented CUDA kernels to calculate the Eigenvalues and Eigenvectors of the covariance matrix of any dataset using the Jacobi rotation method using CUDA and Python.

SKILLS AND CERTIFICATIONS

- Python, MicroPython, 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