## Intro to parallel programming with CUDA and python - Mahir Patel

## About the speaker

I am an engineering student who like to learn about all the intricacies behind everything I learn. I believe that in order to learn something you should always follow a practical approach. Everything I have learned is through creating various projects.

Currently, I am learning about programming a GPGPU for high speed code.

## Abstract

Untill few years ago GPGPU programming was a very difficult task. After the creation of the wrapper library for python, so many doors opened for developers from different field. I would like to introduce parallel programming on CUDA through either PyCUDA or Numbapro (used by Anaconda Accelerate). These two libraries provide a lot more abstraction than opencl but still less than OpenACC. Untill a library for openACC is created these are the best options.

For examples, just off the top of my head, encryption with DES with CTR/ECB mode on a large data or just simply performing arithmetic operations on millions of floating point numbers.