VITALII Toderian

Chernivtsi, Ukraine
vitalii.toderian@gmail.com

Dimensionality Reduction for Studying Diffuse Circumgalactic Medium

Google Summer of Code 2021

About Me

I am currently in the 1st year of my Master in Computer Engineering Degree from Chernivtsi National University. I have been tinkering with code since school days. I love working with different technologies, that's why I've tried a lot of languages and technologies until today. Recently I was working part time as a Full Stack Web developer and I got bored doing that. Past year at university I've tried working with Python Machine learning frameworks (PyTorch, Tensorflow) and creating models for different purposes. My final project for my Bachelor's degree was a model for recognizing about 10 classes.

Honestly, I'm the very piece of student who does everything in the last moment. Even my Bachelor final project I got done by working the whole day and partially at night for 2 weeks and I had finished it 1 day before the deadline. I found out about GSoC the past Monday, I got so excited having such an opportunity while I'm still a student (I would be glad telling about it to younger me in my 1st year at university). The very day in the evening I found out my grandpa died. I was in a long depression with my family, but a notification scheduled by me the very day to 2 hours before submission for GSoC gave me strength to move on.

I've googled now some tips for writing a good proposal and I understand I have not enough time for doing it well. 15 mins before the deadline...

I don't know if I'm a good candidate for this position, but I'm sure I'm able to learn anything. Getting such an opportunity would mean starting my life from a fresh page. Also I'm bored working as a Web developer, I want to bring more good things to this world. I really wanna do science. I know, I'm capable of doing this. And my Engineering degree in combination with my creativity would help me a lot.

Overview

I want to work on smc's CGM Project. I was always passionate about the sky. Since being a child I've learned everything possible about this topic and I was always annoying other people with my knowledge. Recently I've got a good experience working with ML models, improving existing models and creating new ones. That's why I would be glad to contribute to this project.

Goals

1. **Creating a model which would maintain a high level of accuracy:**

Availability

I would be able to devote **approx 40 hours** every week to GSOC. During 1st to 15 th June I will have my end-sessional examinations, and time devoted would be around 4 hours per day for that time.

I have no obligations after June 15th, and would be devoting all my time to GSOC.

I will be reporting my work over daily scrum mails on the mailing list. I accept that I was not regular enough last year, and *I would strive to be regular, and sincere with my scrum and daily updates.*