

Scientific workshop "Big Data Analytics" - Meeting #4005

Scientific seminar 2020-09-22 Enterprize Practice & Master Topics announcements

2020-09-22 16:57 - Evgeniy Pavlovskiy

Status:	Closed	Start date:	2020-09-22
Priority:	Middle (Средний)	Due date:	2020-09-22
Assignee:	Evgeniy Pavlovskiy	% Done:	100%
Target version:		Spent time:	1.50 hour
Time:	16:20 - 17:45	Participants (Wiki):	Dmitry Tailakov to 16:45, Vladislav from 16:55
Place:	https://us02web.zoom.us/j/86212050320	Participants:	Ahmed Fakhry, Alexander Rusnak, Alexey Korolev, Alix Bernard, Darya Pirozhkova, Dinesh Reddy, Yerukalareddy, Evgeniy Pavlovskiy, Kaivalya Pandey, Kirill Lunev, Maria Matveeva, Minh Sao Khue Luu, Mohamed Nasser, Muhammad Hami Asma'i bin Ismail, Mukul Vishwas, Nikita Nikolaev, Oladotun Oluwagbemi, Rishabh Tiwarri, Rohan Rathore, Sayed Mohammad Sajjadi, Sergey Berezin, Sergey Garmaev, Sergey Pnev, Vasiliy Baranov, Virgilio Espina, Vladislav Panferov, Walid Koliai, Watana Pongsapas, Xu Zhang

Description

1. Enterprize Practice from [Digital Field Technologies](#) by *Dmitry Tailakov*

Part-time, flexible schedule.

Ability to write theses and participation in real projects.

Recommended requirements:

- knowledge of language python|C++;
- the ability to use the library for data analysis Pandas, NumPy, SciPy, Matplotlib, TensorFlow, Keras;
- algorithm using optimization techniques and machine learning methods;
- possession of numerical methods of mathematical modeling in hydrodynamics and geophysics.

Contact person: *Dmitry Tailakov*, CTO Digital Field Technologies: dtailakov@nntc.pro

2. [Topics](#) for master thesis from the Digital Field Technologies company

Topics are attached to this issue. Contact person: *Dmitry Tailakov*, dtailakov@nntc.pro

3. [SDAML lab](#). Enterprize Practice.

Universal Practice Plan (180h, 1/3 part-time - 10-20k RUB) :

1. A review of modern solutions based on technical requirements
2. Define metrics for solving the problem (WER, MOS, ...)
3. Find dataset, access (LibriSpeech, VoxCeleb)
4. Find Implementation
5. Reproduce baseline
6. Wrap into a package/module/web-service (define and implement interfaces)
7. Document results
8. [Add data to the dataset]
9. [Retrain with new dataset]
10. Present results

Date start: 5-Oct

Test period - 1 month.

Topics (6 students - max):

1. Voice Command Recognition
2. Speaker Identification
3. Speech-to-Text
4. Text-to-Speech
5. Tumor classification
6. Bones cut

Contact person: *Evgeniy Pavlovskiy*, leading researcher SDAML lab. NSU: e.pavlovskiy@g.nsu.ru.

4. Papers assignment

Current assignment:

image_2020-09-22_17-23-37.png

Decided to form a list of reproducible papers with the help of **Alix Bernard** - by tomorrow (25.09.2020).

Then vote for reproducible papers to select it for inassigned 2nd year students.

History

#1 - 2020-09-22 16:57 - Evgeniy Pavlovskiy

- File 2020-09-22 16-42.png added

- File image_2020-09-22_17-23-37.png added

#2 - 2020-09-22 16:59 - Evgeniy Pavlovskiy

- File Digital Field Topics.doc added

- Description updated

#3 - 2020-09-22 16:59 - Evgeniy Pavlovskiy

- Status changed from New to Resolved

- % Done changed from 0 to 80

#4 - 2020-09-22 17:03 - Evgeniy Pavlovskiy

- Participants (Wiki) changed from Dmitry Tailakov to 16:45 to Dmitry Tailakov to 16:456 Vladislav from 16:55

- Participants Vladislav Panferov added

#5 - 2020-09-23 15:35 - Evgeniy Pavlovskiy

- Subject changed from Scientific seminar 2020-09-22 to Scientific seminar 2020-09-22 Enterprize Practice & Master Topics announcements

#6 - 2020-09-23 17:03 - Evgeniy Pavlovskiy

- Description updated

#7 - 2020-09-23 17:04 - Evgeniy Pavlovskiy

- Participants (Wiki) changed from Dmitry Tailakov to 16:456 Vladislav from 16:55 to Dmitry Tailakov to 16:45, Vladislav from 16:55

#8 - 2020-10-13 18:41 - Evgeniy Pavlovskiy

- Status changed from Resolved to Closed

- % Done changed from 80 to 100

Files

2020-09-22 16-42.png	110 KB	2020-09-22	Evgeniy Pavlovskiy
image_2020-09-22_17-23-37.png	455 KB	2020-09-22	Evgeniy Pavlovskiy
Digital Field Topics.doc	33 KB	2020-09-22	Evgeniy Pavlovskiy