EÖTVÖS LORÁND UNIVERSITY

FACULTY OF INFORMATICS

Thesis Registration Form

Student's Data:
   Student's Name: Hussain Faisal
   Student's Neptun code: CP66SQ

Course Data:
   Student's Major: Computer Science BSc

I have an internal supervisor

Internal Supervisor's Name: *Dr. Tomas Horvath*
   <u>*Supervisor's Home Institution:*</u>   *ELTE IK*
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   <u>*Supervisor's Position and Degree:*</u>   *Head Of Department*

Thesis Title: Application for Precision Livestock Farming of Free-Range Pigs

Topic of the Thesis:
(Upon consulting with your supervisor, give a 150-300-word-long synopsis os your planned thesis.)

With the advent of some latest technologies and developments in computer sciences, a lot of focus has been shifted to data science. The rapid growth of data has led to a new era of information. The data is now treated as a precious asset because it can be utilized and a lot of useful insights can be drawn from it. Data can help institutions in making the right decisions. Instead of relying on perception, trust has been shifted to data, and insights are drawn from it. In my thesis I will be creating a flexible application which would ingest data from free-range pig farm. The application should be easily extendable so that new features can be easily added. The main goal is to provide a platform which can facilitate the farmer in precision farming of pigs. The application should be able to be used by a non-technical person such as a farmer but also can be extended by data scientists/analysts/programmers. The application will have a plugin based architecture and python will be the main language for development.

Budapest, 2020.12.01.