October 14, 2017

Alexandros Ioannidis

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EDUCATION

UNIVERSITY OF STRATHCLYDE
PH.D. IN COMPUTER SCIENCE
EXP. END DATE: OCT/2020
CONC. MACHINE LEARNING, TEXT PROCESSING & INFORMATION RETRIEVAL
Glasgow, UK

UNIVERSITY OF STRATHCLYDE
PG RDP CERT | EXP. END DATE: OCT/2020
Glasgow, UK | ECTS 25 / 60

UNIVERSITY OF STRATHCLYDE
M.SC. IN ADVANCED COMPUTER SCIENCE
Glasgow, UK | Grade 69% (Merit)

HAROKOPION UNIVERSITY
B.SC. IN INFORMATICS AND TELEMATICS
Athens, Greece | Grade 7.42/10 (Merit)

2ND GENERAL LYCEUM OF VRILISSIA, TECHNOLOGICAL STREAM
Athens, Greece | Grade 17.8 / 20

LINKS

Github:// **it21208**
LinkedIn:// **alexandrosioannidis**
Twitter:// **@it21208alex**

COURSEWORK

GRADUATE
Advanced Machine Learning
Information Retrieval
(Research Asst. & Teaching Asst)

UNDERGRADUATE
Software Engineering
Operating Systems (Linux, Windows)
Artificial Intelligence
Unix Tools and Scripting
A bit of Functional Programming

SKILLS

PROGRAMMING
Over 20,000 lines:
R • Python • Java • JavaScript • HTML • Oracle SQL • LaTeX
Over 3,000 lines:
MySQL • MATLAB • SPIM MIPS • C
Familiar:
Apache Lucene • Apache Spark • SQL Plus

EXPERIENCE

NEWSLINES | RESEARCHER - DATA ANALYST
Aug 2017 – Sep 2017 | Glasgow, UK

- Text processing on media news stream using Python libraries such as nltk, beautiful soup, scikit-learn, pandas, numpy, re and many more.

CENTRAL BANK OF GREECE | TECHNOLOGY ANALYST INTERN
Jul 2015 – Jul 2016 | Athens, Greece

- Participation in the implementation/migration to the Eurosystem Target II Security and database (production & test) management.
- Operation of FT Console System for monitoring components of the Secondary Securities Market and contributed to the Bonds Report Server System in VS2012 & VB2012.

PROJECTS

STRATHCLYDE-ISCHOOL LAB | PH.D. RESEARCHER
Sep 2017 – Present | Glasgow, UK
Information Retrieval and Machine Learning on empirical systematic reviews.

UNIVERSITY OF STRATHCLYDE | POST GRADUATE RESEARCHER
Feb 2017 – Jul 2017 | Glasgow, UK
The purpose of the research was to assert the generality of the predictive RFMTC model as an improved more customisable alternative of the RFM model and other Machine Learning algorithms such as (SVM, Random Forest, K-Means, etc.) and justify the additional implementation complexity of some model parameters such as time since first purchase or donation of a customer in a certain period and churn rate as a productive one. Used extensively the R scripting language and CRAN repository for the minimisation of objective non linear functions and Excel.

HAROKOPION UNIVERSITY LAB | UNDERGRADUATE RESEARCHER
Jan 2016 – May 2016 | Athens, Greece
Extended a system that encourages users of a website by proposing new films tailored to the needs of each user. More specifically, the algorithm that was parallelized with Java and Apache Spark, is the third optimal algorithm in the Kaggle competition conducted by Netflix to find the best collaborative filtering algorithm for predicting user ratings for films based on previous reviews.

WORKSHOPS

May 2017	J.P. Morgan Glasgow	Big Data Analytics Introduction
2016	University of Piraeus, Athens	Fosscomm 2016
2014-2015	ATHENA Research & Innovation Center	Agriculture Development Systems
2014	Technopolis Innovation Center Athens	Presentation & Communication

AWARDS

2017-2020	Univeristy of Strathclyde	Ph.D. Scholarship Award (Stipend&Bursary)
Dec 2016	J.P. Morgan Glasgow	3rd place in Machine Learning Workshop
2016	TEDX Strathclyde	1st place Design Challenge
2016-Present	BCS	Student Member

REFERENCES

Univeristy of Strathclyde	Dr Martin Halvey and Dr Leif Azzopardi
Central Bank of Greece	Directors Dr Eythimios Gatzonas and Mr George Stubos

rdp_class_course_assignment

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November 2017

Brief Description of PhD project

Medical and health policy decision makers are faced with answering complex and difficult questions with significant societal and economic implications, e.g. should beta-blockers be given to heart attack survivors? What are the benefits of minimum alcohol pricing? To support evidence-based practice and decision making, systematic reviews are performed to identify, assess and summarise the relevant information available. However, such reviews take a lot of time and require searching and assessing thousands of documents. The proposed project aims to reduce the cost of assessing documents by using and developing machine-learning techniques to create intelligent digital search assistants that collaborate with human reviewers to complete the task of creating a systematic review.

Summary of Progress

So far, I have started reading significant amount of papers regarding information retrieval and machine learning for conducting empirical systematic reviews. I have produced several collections of slides, which can be used as presentations. I've also presented in the strathclyde-ischool research group. Moreover, I have attended the ICMI 2017 conference and also volunteered in that conference.

Timeline and key milestones to come

2017 • Read and write Literature review
2017 • Think and write research questions and the aims of research
2018 • Think and write the research methodology
2018 • Participate in CLEF2018
2019 • Write Implementation section
2019 • Run additional experiments
2020 • Finish the implementation section and start filling the results section
2020 • Finish the results section and the conclusions section, Submit