Vittis Vasileios

97 Southpoint Dr. Amherst, MA, 01002

1. EDUCATION

University Massachusetts Amherst

Sept 2022 - Present

Email: vvittis@umass.edu

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PhD - Computer Science

Amherst, USA

Research Topic: Optimization over Intensive Query Plans, PackageBuilder

Technical University of Crete

- October 2021

Integrated Master Degree- School of Electrical and Computer Engineering

Chania, Greece

Class Rank : 5.8% GPA : 3.4/4

GPA (Computer Science): 3.6/4

Fifth year: GPA: 3.7/4

- Thesis: "Online Ensemble Classification Algorithms for Big Data Streams at Apache Flink"

Distributed Computation, Machine Learning, Scalable Computation, Data Stream

Processing, Concept Drift Adaptation

- Research Project: "Distributed Random Forest at Apache Flink"

Hoeffding Trees, Online Bagging, Boosting, Adaptive Random Forest, Weighted Voting

A Level CS Courses:

Special Topics in Database Systems* (10/10), Approximation Techniques for Massive Databases and Data Streams* (8.5/10), Artificial Intelligence (9/10), Multi-Agent Systems (8.5/10), Databases (9.5/10), Services in Computational Cloud and Fog (9.5/10), Digital Signal Processing (10/10) (*graduate courses)

2. RESEARCH ACADEMIC EXPERIENCE

- External Researcher

November, 2021 - May, 2022

 $Technical\ University\ of\ Crete$

Chania, Greece

Research on optimizations of online Ensemble Learning and intersection of diversity effect

- Research Assistant

Sept, 2022 – Present

University Massachusetts Amherst, Company or Organization
Incremental maintenance of packages over data and query drifts

Amherst, USA

3. RESEARCH SKILLS

- Programming Languages: Python, Java, Scala, C++, Matlab, SQL, NoSQL, Solidity
- Environments & Tools: Apache Flink, Apache Spark, TensorFlow, Keras, Pandas, MapReduce (Hadoop), Server-Client Architecture, Cloud/Fog Computing

4.RELEVANT PROJECTS

- Web Application Development using Docker

Sept 2019 - Dec 2019

Design and implementation of independent services using Docker containers. Server-side implementation, asynchronous programming, https redirects, session variables. Development of user and cloud interface. (Ranked 2nd best)

Evaluation of Machine Learning Algorithms for NPSLE classification
 Robustness validation of ML classification algorithms: SVM, k-NN, Naïve Bayes, Random Forest.
 Exploration of feature reduction/selection methods: PCA, LDA and Pearson's correlation.
 (Ranked 3rd best)

- TinyOS-3 extensions

Sept 2018 - Dec 2018

Implementation of functional extensions of an operating system based on a virtual machine. Implementation of Multilevel Feedback Queue, Multilevel Thread Execution, Pipes and Sockets

- Database Management Project

Feb 2017 - Jun 2017

Data management, data recovery, trigger deployment, implementation of Views using PostgreSQL functions. Query performance monitoring and updated view under JDBC protocol.

5. WORK EXPERIENCE

- Blockchain Developer

Sept 2021 - Jan 2022

Ethereum Blockchain

Joined a group, building a base layer protocol for global, generic attestations.

- Web Search Evaluator

April 2018 - Sept 2018

Appen Co.

Ensuring the accuracy, quality and relevance from research engine queries results.

6. HONOURS & AWARDS

UMass CICS Scholarship of Best PhD Application

2022

University of Massachusetts Amherst

1st Place Entrepreneurship Initiative Start-up Pitch Greek Section

2020

Institute of Electrical and Electronics Engineers (IEEE)

7. VOLUNTEER ACTIVITIES

Chairman May 2019 - May 2020

IEEE TUC Student Branch

Workshop Instruction of "Mathematical Shapes with Python"

Sept 2019

TUC WelcomeDay for freshmen

Webmaster May 2019 - May 2020

TUC Student Branch

IEEEXtreme 2018 Ambassador

Oct 2018

TUC Student Branch