Miruna-Adriana Clinciu

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Programming languages: C++, Python, Java

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Education

Edinburgh Centre of Robotics, Edinburgh, UK   *October 2018 - Expected October 2021*
Ph.D. candidate in Explainable AI
Joint Degree between **Heriot-Watt University** and **the University of Edinburgh**

University of Aberdeen, Aberdeen, UK   *September 2017 - August 2018*
M.Sc. in Artificial Intelligence, GPA: 16.7/22
- **Thesis title:** "Well Performance Analysis – A prototype for Time-Series Forecasting"

Constanta Maritime University, Constanta, Romania   *October 2014 - July 2016*
M.Sc. in Marine Engineering and Navigation, GPA: 3.82/4.00
- Study programme in Advanced Engineering in the oil and gas offshore industry

University Politehnica of Bucharest, Bucharest, Romania   *0ctober 2010 - July 2014*
B.Sc. in Mechatronics and Robotics, GPA: 3.60/4.00, Rank: 3/24

New University of Lisbon, Lisbon, Portugal   *February 2013 - July 2013*
Erasmus Lifelong Learning Programme – Student Exchange Program

Work Experience

Chevron, Aberdeen, UK   *May 2018 - September 2018*
Data Scientist - Internship
- Collaborated with the data science team and the production team for defining the main aspects of the project by following the CRISP-DM Methodology.
- Generated valuable insights from the existing data by doing exploratory data analysis, by using machine learning techniques.
- Predicted water-cut in oil reservoirs by implementing a hybrid-algorithm SAX-LSTM.
- Optimized the clearance process of the data making it 60% quicker by automating daily tasks.

ArcelorMittal, Galati, Romania   *February 2015 - February 2016*
Mechatronics Engineer
- Analysed, developed and published production plans for monthly inspection by using SAP PM.
- Diagnosing breakdown problems by using Root Cause Analysis.
- Provided technical support for the Galva line team.

Teaching Experience

Teaching Assistant for Data Mining and Exploration   *January 2020 – May 2020*

School of Informatics, University of Edinburgh, Edinburgh, UK

- Continually report on the progress of the students.
- Adjust the material of the laboratories according to needs of the students.
- Offer support and assistance for more than 100 students.

SDP Expert for System Design Project   *January 2020 – May 2020*

School of Informatics, University of Edinburgh, Edinburgh, UK

- Providing assistance and tutoring for 20 groups formed by 5-7 students by offering feedback and possible solution for their projects.

Demonstrator for Data Mining and Exploration (**Python**)   *January 2019 – May 2019*

School of Informatics, University of Edinburgh, Edinburgh, UK

- Led weekly laboratory sessions on Data Mining and Exploration for groups of more than 40 students.

Demonstrator for Introduction to Vision and Robotics (**Python**)   *September 2018 - December 2018*

School of Informatics, University of Edinburgh, Edinburgh, UK

- Guided and helped group of ~ 10 students in their final projects.
- Taught elementary coding scripts frequently used in Computer Vision.

Project Work

Evaluating Generated Text Challenges – Shared Task INLG 2020

- Define terminology for evaluating automatically generated text by following the existing research trends.

Investigation of Clustering Methods (**Python**, **R** and **Weka**), University of Aberdeen, Spring 2018

- Investigated various types of clustering techniques on the Iris dataset and choose the parameters that gave better performance, by using external and internal validation methods, for each clustering algorithms (K-means Clustering, EM Algorithm, Density-Based Clustering, Deep Learning Clustering).

Compositional Sentiment Classification (**Python**), University of Aberdeen, Fall 2017

- Achieved better accuracy for rule-based and statistical classification techniques on different data sets by working in a team of two, by using Natural Language Processing techniques.

Publications and Presentations

- Miruna A. Clinciu and Helen F. Hastie. 2019. A Survey of Explainable AI Terminology. In Proceedings of the 1st Workshop on Interactive Natural Language Technology for Explainable Artificial Intelligence, Tokyo, Japan, URL: https://www.aclweb.org/anthology/W19-8403.pdf
- "Let's Evaluate Explanations!", HRI 2020 Workshop on Test Methods and Metrics for Effective HRI in Real World Human-Robot Teams, 2020, Online Presentation, URL: https://hri-methods-metrics.github.io/Clinciu%20-%20Abstract.pdf
- "Optimisation of oil and gas reservoirs by prediction of time-series data", Aberdeen Data, 2018, UK

Awards

Schlumberger Cambridge Research Scholarship, 2018

- Selected as one of the International Ph.D. participants for an industry sponsored studentship, based on leadership potential and academic success.

The Data Lab MSc programme, 2017

- Selected as one of the 90 M.Sc. students for a sponsored studentship for achieving analytical and technical skills for solving real life organisational problems and challenges, required by a broad range of Scottish industry sectors.

Volunteer Experience

Japan Day Aberdeen, UK, Volunteer Planning Team   *May 2017 - September 2018*

- Designed event graphics by using Adobe Photoshop and planned monthly events for the volunteers.
- Achieved a record attendance of 3623 visitors, a 60% increase from 2017.

Extracurriculars

Languages: English, Romanian, French (beginner), Japanese (beginner)

Interests: Painting and drawing, graphic design and mathematics