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SADIA TABASSUM

ABOUT ME

I am a PhD student in the department of Computer Science at University of Birmingham, UK. My research area is Machine Learning for Software Engineering. I also have industry work experience as a developer in a global digital agency.

EDUCATION

University of Birmingham, UK – PhD

2018 – 2021

During my PhD, I worked as part of the project – Stable Prediction of Defect-Inducing Software Changes (SPDISC) which aims at creating more stable models for predicting defect-inducing changes, through the development of a novel machine learning approach for automatically adapting to concept drift.

I have investigated online cross-project/transfer learning for just-in-time software defect prediction. My work in this area has been accepted in the prestigious ICSE 2020 conference.

University of Leicester, UK – MSc in Advanced Software Engineering

2015 – 2016

Dissertation: Touristic Route Planner

This project involved developing an intelligent tour planner application. For the project, it was required to solve an optimisation problem where a user wants to visit a number of tourist attractions within a limited time.

The aim of the application was to automatically find out the best possible travel route for the user. The process included designing a Genetic algorithm, implementing the algorithm using Java, developing a graphical user interface using Swing to enhance user experience, testing and evaluating the approach leading to the final application.

Modules:

Internet and Cloud Computing, Service Oriented Architecture, Advanced System Design, Software Quality Measurement, Semantic Web, Generative Development, System Re-engineering.

IIUC, Bangladesh – BSc in Computer Science and Engineering

2005 – 2009

Modules:

Computer Algorithms, Data Structure, Structured Programming in C, Object Oriented Programming Java, C++, Numerical Methods, Database, Artificial Intelligence, Pattern recognition and image processing.

EXPERIENCE

University of Birmingham, UK – Graduate Teaching Associate

2018 – PRESENT

- Modules where I was/am a teaching associate are: Machine Learning, Intelligent Data Analysis, Artificial Intelligence, Database.

Perform Group, UK – Junior Front-End Developer

2012 – 2014

- Developed website features and functionalities using html5, css3, javascript, jquery, xml and Java/freemarker for large data-driven websites according to clients requirements.
- Worked in a cross-functional team of backend developers, project manager and QA testers.
- Practice of Agile methodologies, participating in daily scrum meetings, planning sessions and retrospectives

SKILLS

- | | |
|---------------------|---------------------------|
| • Python, Java | • Machine Learning |
| • Matlab | • Evolutionary Algorithms |
| • SQL | • Optimization |
| • Jupyter Notebook | • Statistical Test |
| • Pandas, Numpy | • Software Engineering |
| • Weka, MOA | • Agile Methodology |
| • Transfer Learning | • HTML, CSS, Javascript |
| • Ensemble Learning | |

PUBLICATION

TABASSUM, S.; MINKU, L.L.; FENG, D.; CABRAL, G.; SONG, L. . "An Investigation of Cross-Project Learning in Online Just-In-Time Software Defect Prediction", 2020 International Conference on Software Engineering (ICSE), 2020 (accepted). (Acceptance rate 20.9%).

AWARDS

PhD scholarship by University of Birmingham, UK

MSc scholarship by University of Leicester, UK