

Curriculum Vitae

Name: Nabil Douss
Born: 25.01.1997 in Tunis, Tunisia
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Professional Experience

From 06/19

Ernst & Young GmbH Wirtschaftsprüfungsgesellschaft

Consultant | From 10/22

Working Student | 06/19 – 06/22

- Design and implementation of a backend server in Javascript and GraphQL for processing real-time queries, while continuously maintaining an underlying MongoDB database.
- Design and development of a web-based dashboard in VueJs for real-time data analysis, implementing and testing various components such as tables, filters, and charts.
- Design and development of a reporting tool in C# for data analysis and automatic creation of spreadsheets, pivot tables and graphs in Excel files.
- Conversion of a desktop solution into a web application in ASP. Net, and optimization of back-end processes such as data transfer, data analysis, communication with third-party APIs and SQL Server database maintenance.
- Design and implementation of a user interface in C# and ASP .Net for maintaining data in a MongoDB database.
- Implementation of quality assurance measures in the form of code review, defect analysis and correction, and implementation of more than 50 unit tests in C# and XUnit framework.

Education

10/19 - 06/22

Technische Universität Berlin

Field of study: Computer Science (Grade 1.2)

Track: Data Science & Engineering

- Master thesis: "Multi-domain Sentiment Analysis with an Active Learning Mechanism"; The thesis proposes three different model architectures for binary sentiment analysis on multi-domain textual data with the purpose of utilizing an Active Learning mechanism to improve the training of domain-specific models.
- Design and implementation of a model for optical text recognition (OCR) on historical documents using LSTM networks (Python, PyTorch, Tesseract).
- Implementation of different types of neural networks: ANN, CNN, RNN, Deep-Boltzmann Machines and Auto-encoders (Keras, Tensorflow).
- Implementation of a database system in Java.
- Experience in Big Data analytics frameworks such as Spark, Flink and Hadoop.

10/16 – 01/20

Technische Universität Berlin

Field of study: Computer Science (Grade 1.5)

Scholarship: Deutschlandstipendium (2017 - 2019)

- Bachelor thesis: "An Analysis of Lightweight Cryptographic Algorithms"
The thesis presents an approach to analyze lightweight cryptographic algorithms to determine their suitability for Internet of Things (IoT) applications.
- Implementation of a user interface (HTML, CSS) and a REST API (Spring framework, Java) based on Elasticsearch.
- Experience gained in C, Java, and Python.

11/15 – 03/16

Language Stay in Cologne

Language: German (C1 Level)

09/11 – 06/15

Pioneer School of Ariana (LPA) Tunisia

Degree: High School Diploma in Mathematics (Grade 18.05/20)

Publications

2023

ACM SAC Conference (SAC'23)

Katerina Katsarou, Nabil Douss, and Kostas Stefanidis. 2023. REFORMIST: Hierarchical Attention Networks for Multi-Domain Sentiment Classification with Active Learning. In Proceedings of ACM SAC Conference (SAC'23). ACM, New York, NY, USA, Article 4, 10 pages.

Other Qualifications

IT-Skills

- Programming languages: Python/C#/Java/R/C/Javascript
- Frameworks: Hadoop/Spark/Flink/Spring/ASP .Net/VueJS/GraphQL/NextJs
- Machine Learning: PyTorch/Keras/Tensorflow/Scipy/Pandas
- Database Systems: MySQL/SQL Server/MongoDB

Language Skills

- German, Professional proficiency
- French, Professional proficiency
- English, Professional proficiency
- Russian, Basic skills
- Arabic, Native language

Hobbies

- Travel: Visited 19 countries
- Sport: Tunisian gold medalist in 2010 in Taekwondo
- Music: Plays guitar and drums