Desared Osmanllari   **Curriculum Vitae**

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General Information

Name	Desared
Family Name	Osmanllari
Date of Birth	June 9, 1993
Gender	Male
Current Address	Bernhard-Feilchenfeld-Straße 13, Köln
Nationality	Albanian

Work Experience

Oct 2018 – present   **Data Scientist at real.digital**

- Developing applications and data-driven products, which are integrated into the business processes. Various analytical approaches and data mining algorithms are used for pattern detection, regression, classification, clustering, dimensionality reduction, and deep learning.
- Technologies and Concepts: Machine Learning, Predictive Analytics, Recommendation Systems, Kubernetes, Helm, Docker, Python, Tensorflow, Keras, Scikit-Learn.

Oct 2017 – Aug 2018   **Internship and Master Thesis Student at AUDI AG**

- The internship program deals with topics on predictive modelling, validation, and big data analytics. Data is ingested from various sensors and PLC systems, stored in Hadoop cluster, and analysed by Spark as a big data processing tool.
- Technologies and Concepts: Big Data, Data Lake, Smart Factories, RabbitMQ, Spark, Python, R, Tableau.

Apr 2017 – Jun 2017   **Internship at PwC – Forensic Technology Solutions**

- Assisting in the fields of Forensic Technology Solutions & Data Mining. Participating in projects concerning computer forensics, e-discovery, predictive data analysis and fraud detection.
- Technologies and Concepts: Relational Databases, Structured Data, ERP System, Java, Microsoft SQL, QlickView, SAP.

Nov 2016 – Feb 2017   **Teaching Assistant at RWTH Aachen University**

- Assisting Dr.Oya Deniz Beyan during "Big Data in Medical Informatics" lectures.
- Preparing learning materials, exercises, and homeworks about topics related to biomedical ontologies, RDF data models, and SPARQL query language.

Education

Oct 2015 – Sep 2018   **RWTH Aachen University, Aachen**

M.Sc. Software Systems Engineering, German grade: 1.7
- Master Thesis: "Conceptualization and Development of a Predictive Big Data Streaming Application in the Context of Automotive Manufacturing"

Aug 2011 – May 2015   **American University in Bulgaria, Blagoevgrad**

Double Bachelor's Degree, German grade: 1.7
Graduated top 10% of the 2015 class
- Computer Science, Bachelor Thesis: "Multiplayer Dice Game"
- Information Systems, Bachelor Thesis: "Tour Guide Mobile Application"

Projects Involved

May 2020   **Customer Segmentation Report for Arvato Financial Services - Python**

- Supervised and unsupervised learning techniques are used to acquire potential future customers of a mail-order company.

Feb 2017	**Application of Lambda Architecture in the Automotive Industry – Spark**	

- Using the concepts of lambda architecture, a well-defined, efficient, and scalable technique adapted for real-time predictive maintenance is implemented.

Feb 2017   **Lab: Data Visualization and Analytics – R statistical tool**

- Movie predictions using multivariate regression and feature modelling.

May 2015   **Tour Guide Mobile Application – Android Application**

- Interactive Android application containing a static database of European touristic destinations.

May 2015   **Multiplayer Dice Game - Java**

- Multiplayer game using advanced algorithm and probabilistic functions.

Papers

Mar 2017   **SPARQL Query Optimization for Federated Linked Data**

- Chair of Information Systems & Databases, RWTH Aachen

Jun 2016   **An Overview of Visualization in Mathematics, Programming and Big Data**

- Chair of Media Computing and Human-Computer Interaction, RWTH Aachen

Languages

- Albanian: native speaker
- English: fluent (level C1-C2)
- German: upper intermediate (level B2)
- Italian: intermediate level (level A2-B1)

Technical Skills

- Programming Languages: Python, R, Java, LaTeX
- Big Data Stack: HDFS, MapReduce, Spark (SQL, ML, Streaming), Hive
- Operating Systems: Linux, Windows
- Cloud Computing: GCP (BigQuery, Kubernetes), AWS (Sagemaker)
- Query languages: MS SQL, MySQL, SPARQL, BigQuery SQL
- Data Integration Tools: Talend
- Modelling: UML, ER-Model
- Visualization Tools: QlikView, Tableau
- Other: Kafka, Databases, Git, Numerical Libraries, Tensorflow, Keras, Docker

Honours and Awards

May 2015   Dean's List Scholar 2014/2015 B.A. Computer Science
May 2015   Cum Laude 2011-2015 B.A. Computer Science & Information Systems
Nov 2014   Phi Beta Delta Honour Prize for international experience

Certifications

May 2020   Machine Learning Engineer Nanodegree (Udacity)
Jul 2016   SimulTrain – Project Management Simulation (RWTH Aachen University)
Nov 2016   R Programming (Certification Authority: Coursera)
Dec 2016   Getting and Cleaning Data (Certification Authority: Coursera)
Sep 2016   Statistical Inference/Regression Models (Certification Authority: Coursera)

Main Interests

- Machine Learning / Data Mining / Business Intelligence
- Business Management
- Politics
- History
- Football