

Deborah Djon

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EDUCATION

PhD in Computer Science | Dublin, Ireland 06/11/23 – current
Dublin City University

Master of Science in Computer Science, Major Artificial Intelligence | Dublin, Ireland 09/2022 – 08/2023
Dublin City University GPA: 1.1

Core modules: Statistical Data Analysis, Foundations of Artificial Intelligence, Data Analytics & Data Mining, Machine Learning

Bachelor of Science in Computer Science, Major Computational Data Science | Stuttgart, Germany 10/2019 – 09/2022
Baden Wuerttemberg Corporate State University GPA: 2.1

Core modules: Software Engineering, Web Engineering, Data Science, Artificial Intelligence and Machine Learning, Python

SKILLS

Software Development | Python, TensorFlow, Pandas, Amazon Web Services (AWS), Hugging Face, Docker, Kubernetes

Languages | German (native), English (native), French (fluent)

Further Skills | Project management, communication, consulting, mentoring, data-driven decision making

INDUSTRIAL EXPERIENCE

Data Science and Software Engineering Trainee | Nokia, Stuttgart, Germany 10/2019 – 09/2022

- Created an innovative reinforcement learning application for research on next-generation networks at the Nokia Bell Labs in the context of my bachelor's thesis. The provided solution improved the existing non-machine solution by 20%.
- Collaborated across departments to create a data visualisation application to streamline supply chain segmentation by performing a k-nearest neighbours analysis using customer and product features, leading to an average reduction of 5 days in product delivery times. Defined and regularly updated requirements and specifications with the product owner.
- Consulted a team working on a network health monitoring big data application optimising factors influencing cloud storage data query execution times. This led to a 92% improvement in query times and a 20% cost reduction using AWS Redshift.
- Collaborated with team members across three time zones extending the KPI-dasboard for users of the OpEN Ecosystem Network, leveraging full-stack development technologies, including Kubernetes, Docker, and Git.
- Developed a C++ application for data extraction and analysis from network devices capable of collecting 10MB of data per unit per day, contributing to network operational status assessment and enhancing reliability.

PROJECTS

Video Identification Based on Encrypted Network Trace and Attack Mitigation | Masters Thesis 09/2022-08/2023

- Developed and optimised machine learning models, to identify videos while bypassing network encryption using including using TensorFlow, achieving an F1-Score of 80% for multi-class video trace classification.
- Employed best practices in machine learning projects such as CRISP-DM, clear goal definition and high-quality data preparation and employing meaningful model performance measures.
- Conducted thorough exploratory data analysis to uncover network data patterns.
- Collaborated effectively with a domain expert team member to combine expertise in AI and cybersecurity.

E-Store Product Prediction | MSc Machine Learning Class 01/2023-05/2023

- Implemented fine-tuning of a huggingface DistilBERT model for multi-class text classification, specifically for an e-commerce platform to classify products based on user-defined attributes achieving a maximum F1 score of 0.90%.
- Performed data cleaning, tokenization, and feature engineering, combining textual and categorical features to create a more effective model input and fine-tuned parameters such as the learning rate, batch size, and token length demonstrating an understanding of NLP techniques, with a focus on optimizing a language model for a practical applications.

HONORS EXTRACURRICULAR

Dean's Honours List | Awarded to the 5% of best-performing students in their class at Dublin City University. 10/2023

Chair of Youth and Trainee Representative Council, Nokia Stuttgart | Hamburg, Germany 10/2020 – 06/2020

Spokesperson, mentor and organiser of initiatives for trainees and other young professionals at Nokia Stuttgart.