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"Great things never came from comfort zones."

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Exp	CI	IC		CC

Clinical Data Science, Maastricht University

Maastricht, The Netherlands

RESEARCHER

September 2019 - September 2020

- In charge of setting up an infrastructure for federated learning for multiple cohorts of Dementia in the Netherlands
- Involved semantic data modeling to enhance data processing
- Aided in writing project proposal

Institute of Data Science, Maastricht University

Maastricht, Netherlands

July 2017 - February 2019

STUDENT RESEARCH ASSISTANT

- Main Research Focus: Biomedical Metadata Quality Assessment
- · Used topic modeling and machine learning as a means to assess the quality of biomedical metadata
- Using deep learning to predict metadata with the help of scientific publications

Delhi Metro Rail Corporation Ltd.

New Delhi, India

STUDENT INTERN May 2015 - June 2015

Developed a web application using PHP using the platform called laravel for the Customer Relation Management System (CMRS)

Foundation of Ecological Society (FES)

Ujjain, India

STUDENT VOLUNTEER

Dec. 2013 - Dec. 2013

Understood the working of the NGO at village by attending various meetings that were conducted and by taking interviews of the people living there

Education

Department of Data Science and Knowledge Engineering, Maastricht University

Maastricht, Netherlands

M.Sc. IN DATA SCIENCE IN DECISION MAKING

Feb. 2017 - Feb. 2019

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)

Gandhinagar, India

B.Tech. IN Information and Communication Technology

July 2012 - May 2016

Skills

- Languages: Java, Python, R
- Databases and Web Technologies: MySQL, SPARQL, PostgreSQL, Protégé, Laravel, Unity 3D, GraphDB, scikit-learn, PyTorch, Docker

Relevant Coursework

GRADUATE

Algorithms for Big Data, Information Retrieval and Text Mining, Data Mining, Model Identification and Data Fitting, Mathematical Optimization, Stochastic Decision Making and Ontology Engineering

Undergraduate

Object Oriented Programming, Database Management System, Web Data Management, Data Mining and Warehousing, Introduction to Quantum Mechanics, Quantum Computation, Optimization, Calculus and Complex Variables, Introduction to Discrete Mathematics, Logic for Computer Science and Algebraic Structures

Projects

Automated Prediction of Experimental Metadata from Scientific Publications (Link)

Maastricht, Netherlands

MASTER THESIS PROJECT Sept. 2018 - Feb. 2019

• Used deep learning (CNN and BiLSTM) to predict metadata

· Comparison of performances of Machine Learning and Deep Learning, where CNN has the best performance

Quality Assessment of Biomedical Metadata using Machine Learning

Maastricht, Netherlands

Internship Project March 2018 - July 2018

- · Used Binary Classification on a gold-standard data to assess the biomedical metadata quality assessment
- · Comparison between multi-class classification and binary classification, binary classification

Quality Assessment of Biomedical Metadata using Topic Modeling

Maastricht, Netherlands

July 2017 - Jan. 2018

RESEARCH PROJECT

• Used topic modeling to cluster similar metadata elements

• Used BioSamples dataset as a use case to check the feasibility

Prediction of Atrial Fibrillation (AFib) Recurrence for patients undergoing Electro-Cardioversion

Maastricht, Netherlands

Masters Research Project Sep. 2017 - Jan. 2018

Developed a gradient boosting model to see which set of features help predicting the recurrence of AFib. The clinical features like age, height, BMI were found to be of high importance

Discovery connectivity in brain

Maastricht, Netherlands

MASTERS RESEARCH PROJECT Feb. 2017 - Jun. 2017

Developed a method to analyze detect non-linear spectral causality in multivariate system for understanding connectivity in brain

Query execution in column stores vis-à-vis row stores

Gandhinagar, India

B.TECH PROJECT

Jan. 2016 - April 2016

- Literature survey of performance column stores when compared to row stores in read queries
- Comparison of results on various databases using TPC-H benchmark

Research _

CONFERENCE, WORKSHOPS & PRESENTATION

Health-RI Conference 2020, Presented poster on the research infrastructure for federated learning
 Connected Data London, Workshop regarding graph databases and knowledge graphs
 London, UK

RESEARCH PAPERS

2020 MIND 2020, Springer Conference, Personal Health Train on FHIR – a privacy preserving federated approach for analyzing FAIR data in healthcare

2019 Journal of Data and Information Quality, Automated Prediction of Experimental Metadata from Submitted October Scientific Publications (Under review) 2019

Semantic Web solutions for large-scale biomedical data analytics (SeWeBMeDA-2018), Quality

Semantic Web solutions for large-scale biomedical data analytics (SeWeBMeDA-2018), Quality
Assessment of Biomedical Metadata Using Topic Modeling

Workshop Paper

Leadership and Service

Maastricht, Netherlands

STUDENT AMBASSADOR, THE FUTURE OF A DATA-DRIVEN SOCIETY

January 26, 2018

Volunteered in organizing the event and handling all the registrations

Gandhinagar, India

MEMBER OF SPORTS COMMITTEE, STUDENT BODY GOVERNMENT (DA-IICT)

July 2015 - April 2016

Helped in organizing the Sport festival and various events related to sports the whole year round

STUTI NAYAK · RÉSUMÉ

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