

Tsvetan R. Yordanov

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Summary: Experienced software engineer with skills in Machine Learning (ML), Deep Learning (DL), Natural Language Processing (NLP), federated learning, and healthcare informatics. Strong team player with excellent planning and communication skills. Passionate about innovation and health.

Experience:

PHD Candidate

Amsterdam UMC

Oct 2021 – Present (1 yr 6 mos)

- Researching validation methodologies, federated learning and deep learning in the clinical domain

Software Engineer

Amsterdam UMC

Oct 2020 – Apr 2021 (6 mos)

- Clinical Decision Support System (CDSS) portal - help GPs in medication deprescribing for patients at risk of falling

Dutch National Heart Registry (NHR)

Oct 2020 – Present (2 yr 6 mos)

- implementing new components, requirements gathering, communicating with hospital clinicians and data managers

DevOps Engineer

Flowable-Mimacom

Nov 2018 – Aug 2019 (10 mos)

Technology Analyst

JPMorgan Chase & Co.

Sep 2015 – Nov 2018 (3 yrs 3 mos)

Devops Engineer

Formedix

May 2013 – Aug 2015 (2 yrs 4 mos)

Education:

Master of Science (MSc), Medical Informatics

University of Amsterdam

Sep 2019 – Aug 2021

Thesis: Performance of a multicenter TAVI mortality prediction model – center variability and case-mix differences.

Grade: 9/10 Supervisor: Prof. Ameen Abu-Hanna

Bachelor of Science (BSc. Hons.), Computer Science

University of Glasgow

Sep 2011 – June 2015

Thesis: Emotion aggregation techniques from text corpora using ML and NLP

Grade: A4 Supervisor: Prof. Joemon Jose

Research Outputs:

Using Autoencoders for predicting clinical codes in EHR records for ICU patients

- Accepted at AI in Medicine 2023 (AIME23) conference (June)

An integrated approach to geographic validation helped scrutinize prediction model performance and its variability

- Presented at AIME21 doctoral consortium
- Published in Journal of Clinical Epidemiology, Volume 157, Feb 2023

Skills:

- Python, PyTorch, TensorFlow, Keras
- Apache Spark, R, Omics
- Java, Database Management Systems, NoSQL
- DevOps, Containerization, Cloud computing
- Agile, 6SIGMA