

Daniel D'souza

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EDUCATION

University of Michigan

MSc. ELECTRICAL AND COMPUTER ENGINEERING(MACHINE LEARNING)
CERTIFICATE OF GRADUATE STUDIES (DATA SCIENCE)

Ann Arbor, MI | May 2018

Visvesvaraya Technological University

BE. ELECTRONICS AND COMMUNICATIONS ENGINEERING

Belgaum, India | July 2013

PUBLICATIONS

Articles in peer-reviewed Journals

ESTIMATING EXAMPLE DIFFICULTY USING VARIANCE OF GRADIENTS [↗](#)

CVPR 2022

Chirag Agarwal*, Daniel D'souza*, Sara Hooker

MASAKHANER: NAMED ENTITY RECOGNITION FOR AFRICAN LANGUAGES [↗](#)

TACL 2021

David Ifeoluwa Adelani, Jade Abbott, Graham Neubig, Daniel D'souza, ...

Articles in peer-reviewed Workshop Proceedings

A TALE OF TWO LONG TAILS [↗](#)

UNCERTAINTY IN DEEP LEARNING WORKSHOP, ICML 2021

Daniel D'souza, Zach Nussbaum, Chirag Agarwal, Sara Hooker

WORK EXPERIENCE

PROQUEST LLC | SR.DATA SCIENTIST

Ann Arbor, MI | June 2018 – Current

- Medical Text Processing Pipeline for Pharmacovigilance
 - **Led Product Strategy and Development** for the company's first ML Service
 - Curated Data for Text Classification and Named Entity Recognition Systems
 - Built Metrics Dashboard for Classification/Ranking Tasks using Streamlit
 - Case Report Discovery for major Pharma client **improved by 120%**
- Automated Indexing using MeSH Vocabulary
 - Implemented custom architecture in PyTorch
 - Implemented Data Processing Jobs in AWS Sagemaker
 - Implemented Selenium Data Scrapers to collect additional public data for pre-training
- Mentorship/Guidance
 - Mentored student-teams from the University of Michigan through MDP(Multi Disciplinary Program)
 - Mentored ML interns from 2018-2022

DELPHI | SOFTWARE ENGINEER

Bangalore, India | August 2013 – July 2016

- Modelling and Simulation of Fuel Strategy functionalities for DAF Trucks, Sweden
- Optimization of Engine and Air Management Features for Hyundai Motors
- SPOT Award for reporting and fixing a critical fuel library block overflow issue in a major DAF release.

RESEARCH AFFILIATIONS

ML COLLECTIVE | ML RESEARCHER

| Jan 2021 – Current

MASAKHANE | ML RESEARCHER

| June 2020 – Jan 2021

SKILLS

ML Frameworks: Pytorch, Tensorflow, Scikit-Learn

Technology: AWS, GCP