

Raasetje Bonjo Sefala

Professional profile

Innovative professional with great problem solving and programming skills. Working knowledge of participating in a team to develop machine learning, data science, web, desktop and mobile applications (in various languages including python, C# and the .net framework, SQL, java and Php). I am currently exploring the field of Data Science out of the pure interest of the endless possibilities which come with having the skills of data analytics. Highly articulate, confident and good team-player, able to motivate and communicate to achieve exceptional performance. Dependable and reliable in supporting and enabling team effort to produce genuine long-term sustainable development. Eager to learn and share new skills and meet new challenges in a dynamic work environment.

Education

MSc Computer Science	2018 - 2020
<ul style="list-style-type: none">Wits UniversityTopic: using satellite images to quantify apartheidSupervisors: Nyalleng Moorosi, Dr Timnit Gebru, and Dr Richard Klein	
BSc (Honours) Big Data Analytics	2017 - 2018
<ul style="list-style-type: none">University of the WitwatersrandRelevant Modules: • Data Analysis and Exploration • Distributed Computing • Discrete Optimisation • Data Visualisation and Communication • Computer Vision • Machine Learning • Artificial Intelligence • Introduction to research methods • Research report for Big Data Analytics	
BSc Computer Science (CS) and Information Systems	2014 – 2016
<ul style="list-style-type: none">Wits UniversityAwards: 9 Certificates of first class in several courses (6 in CS, 2 in Maths, 1 in Electrical circuits)	

Selected Recent Experience

Data Engineer, Targeting Talent Programme (TTP)- Wits University	2019-2020
Part time work. Created a database which tracks all of the programme's alumni since 2009, this is used to measure the programme's impact. Created a data version control system and also integrated a data analysis tool.	
Data Fellow - Data Science for Social Good fellowship, University of Chicago	2018
Used object detection and classification to find objects, semantic segmentation to determine where they are (on road/ sidewalk/ wrong lane) and optical flow to determine movement in order to build a video-processing pipeline for the city of Jakarta to extract structured information from raw traffic footage. (https://github.com/dssg/jakarta_smart_city_traffic_safety_public)	
Jnr Data Scientist - Data Science for Impact and Decision Enablement (DSIDE), CSIR	2017-2018
Using Active learning, a Bayesian ranking system and a Gaussian Process model to rank images of interest to a user.	
Robotics interest group host- Mathematical Sciences Support, Wits University	2016-2017
We used inverted learning to teach an introductory course in robotics to a general audience of students from different backgrounds. (https://www.youtube.com/watch?v=cZUwe0ld1Q&t=17s)	

Achievements

Speaker at the Computer Vision for Global Challenges at CVPR. LA, USA	2019
Speaker at the AI for Social Good Workshop at NeurIPS, Montreal, Canada	2018
Selected for an oral presentation at the 2nd Black in AI Workshop at NeurIPS. Montreal, Canada	2018
Recipient of the best poster presentation prize at the Deep Learning Indaba, Stellenbosch, South Africa	2018