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Julien Nyambal

Education

- 2019 PhD in Computer Science (Machine Learning), Supervisor: Dr. Richard Klein, University Present of the Witwatersrand, Johannesburg, South Africa.
- 2017 2018 Master of Science in Computer Science (Machine Learning Computer Vision), Supervisor: Dr. Richard Klein, University of the Witwatersrand, Johannesburg, South Africa.
 - 2016 Bachelor of Science (Honours) in Computer Science, University of the Witwatersrand, Passed with Distinction, Johannesburg, South Africa.
- 2012 2014 Bachelor of Science in Computer Science & Mathematics, University of Zululand, Kwadlangezwa, South Africa.

Experience

- 04/2018 Software Developer, Data Analyst, Retro Rabbit, Johannesburg, South Africa.
 - Present
- 02/2019 Part Time Lecturer, University of the Witwatersrand, Johannesburg, South Africa.
 - Present Introduction to Programming and Algorithms
- 06/2017 Teaching Assistant, University of Witwatersrand, Johannesburg, South Africa.
 - 04/2018 Marking assignments, tests, invigilations, tutoring, monitoring laboratory work
- 02/2013 Teaching Assistant, University of Zululand, Kwadlangezwa, South Africa.
 - 11/2014 Marking assignments, tutoring, monitoring laboratory work

Skills

- Languages Python(fluent), SQL, Golang (intermediate), Matlab, Java, Scala(basic), C++(basic), IATEX, Shell/Bash (intermediate)
- Frameworks Keras, Tensorflow, Git
 - OS Ubuntu Linux(Prefered), Windows (intermediate), MacOS(basic)
 - Others Docker, AWS(ECS, EC2), Kubernetes(basic), Hadoop(basic), Spark(Intermediate)

Projects

Automated Parking Space Detection, Python, Keras, Octave/Matlab, Scikit-learn.

Improving the Honours project for automatic detection and comparison between Support Vector Machines and Convolutional Neural Networks.

Awards

Rector's fund Merit Award, 2012.

Best achiever undergraduate student with annual average of above 80% in all modules, University of Zululand

- Project 2nd Best Software Engineering group Project Leader (SmartDrive), 2013.
- Award Created and developed the second best working native android for my 2nd year group project. Receive an award of best project leader, University of Zululand

Faculty Best 3rd year Computer Science student in Faculty of Science, 2014.

Award University of Zululand

DST-CSIR Inter-bursary Support Programme Scholarship, 2016.

ABSA Most Commercially Viable Project - Computer Science, 2016.

Best poster presentation under the Most Commercially Viable Project category when presenting Honours projects to companies for external assessment.

University of the Witwatersrand, Johannesburg

DST-CSIR Inter-bursary Support Programme Scholarship, 2017.

Deep Won 'Machine Learning: A probabilistic Perspective by Kevin Murphy', September 2017.

Learning Poster presentation awarded (Automated Parking Space Detection) for innovative use of deep learning techniques.

Indaba 2017 University of the Witwatersrand, Johannesburg

8th PG Certificate of participation:, October 2017.

X-Faculties Flash talk and poster presentation about my Master's project, Automated Parking Space Detection.

Symposium University of the Witwatersrand, Johannesburg

DST-CSIR Inter-bursary Support Programme Scholarship, 2018.

Publications

2017

Nyambal, J. and Klein, R. (2017). Automated parking space detection using convolutional neural networks. In 2017 Pattern Recognition Association of South Africa and Robotics and Mechatronics (PRASA-RobMech), pages 1–6. IEEE.

Training

2017 High Performance Computing Winter School at Stellenbosch University: C & Python programming for cluster computing., *Hosted by the CHPC*, CSIR.

Talks

4 April 2018 Introduction to Machine Learning and Deep Learning, Deep learning IndabaX Centrafrique, Ecole Nationale Supérieure Polytechnique de Yaoundé - Cameroon.

7 September **Computer vision in your daily life**, Retro Rabbit Conference, Retro Rabbit Pretoria - South 2018 Africa.

2 April 2019 **Machine Learning in Production**, Deep learning IndabaX Cameroon, L'Institut français du Cameroun - Cameroon.

3 May 2019 **Deep Learning and its application**, Deep learning IndabaX Ethiopia, Wolaita Sodo University - Ethiopia.

Extracurricular Activity

4 - 6 April Co-Organizer Deep learning IndabaX Centrafrique, Ecole Nationale Supérieure Polytechnique 2018 de Yaoundé - Cameroon.

2 - 4 April Co-Organizer Deep learning IndabaX Cameroon, French Institute - Yaounde, Cameroon. 2019

References

1- Dr. Richard Klein, Lecturer.

Institution: University of the Witwatersrand

Unit: School of Computer Science and Applied Mathematics

E-mail: Richard.Klein@wits.ac.za

2- Dr. Pravesh Ranchod, Lecturer.

Institution: University of the Witwatersrand

Unit: School of Computer Science and Applied Mathematics

 $\textbf{E-mail:}\ Pravesh. Ranchod@wits.ac.za$

3- Prof. Turgay Celik, Professor.

Institution: University of the Witwatersrand

Unit: School of Computer Science and Applied Mathematics

 $\textbf{E-mail:} \ Turgay. Celik@wits.ac.za$