

RAMRAJ CHANDRADEVAN

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OBJECTIVE

Looking for research internship opportunities in Information Retrieval, NLP, Computer Vision, Data mining.

EDUCATION

- PhD in Computer Science and Informatics** Aug. 2019 - Present
Information Retrieval(IR) Lab, Emory University, Atlanta, GA
- BSc.(Hons) in Electronic and Telecommunication Engineering** Nov. 2014 - Dec. 2018
Faculty of Engineering, University of Moratuwa, Sri Lanka GPA : **3.80/4.20 First class(Honours)**
- Private Pilot Licensing (PPL)** Jan. 2016 - Jun. 2017
Skyline Aviation, Ratmalana, Sri Lanka

SKILLS

Fields : Information Retrieval, NLP, Computer Vision, Data mining, Robotics, Deep Learning.
Tools : Python, C++, Java, PyTorch, TensorFlow, Keras, Theano, Dask, Docker, Git, MATLAB, R, RStudio, ITK.

EXPERIENCE

- Research and Development Intern — Kitware, Inc** Chapel Hill, NC
Medical Computing Team Feb. 2019 - Jul. 2019
- Applied Deep Learning and Machine Learning techniques in Computer Vision and Image Processing applications.
- Undergraduate Research Intern — CooperLab, Emory University** Atlanta, GA
Department of Biomedical Engineering and Bioinformatics Jun. 2017 - Dec. 2017
- Applied Deep Learning techniques to learning-to-rank problem in survival analysis.
- Software Developer Intern — Foysonis WMS** Carry, NC
Warehouse Management System - Startup Jul. 2016 - Mar. 2017
- Designed home web-page, blog web-page, and payment gateway integration.

PROJECTS

- Multilingual Compositional Analysis and Retrieval** Rotation Project at Emory — Sep 2019 - Present
- IARPA BETTER competition - currently working on search engine frameworks and learning-to-rank models.
- Multiple Instance Learning on Nuclei Detection @GitHub** Internship at Kitware — Feb. 2019 - Jun. 2019
- Implemented an end-to-end generic nuclei detection pipeline in large scale, parallel systems. [@Published Blog](#)
- Tooth Micro Crack Detection @GitHub** Internship at Kitware — Sep. 2019 - Present
- Implementing a machine learning pipeline along with signal processing techniques (Wavelet transform & Phase analysis).
- WBC Cell Detection and Classification @GitHub** Senior Project Thesis — Mar. 2018 - Jan. 2019
- Implemented and evaluated an end-to-end pipeline to bounding box detect and classify cancerous white blood cells.
- TFSurvivalNet Implementation @GitHub** Internship at Cooper Lab — Aug. 2017 - Nov. 2017
- Re-implemented Theano based SurvivalNet to TensorFlow-Slim based framework and Dockerized the package.
- Alzheimer's Patients Classification** Internship at Emory — Jun. 2018 - Nov. 2018
- Implemented and evaluated a deep learning model using graph-based feature selection and hyper-parameter tuning.

PUBLICATIONS

- **Chandradevan, R.**, A. A. Aljudi, B. R. Drumheller, N. Kunananthaseelan, M. Amgad, D. A. Gutman, L. A. D. Cooper, and D. L. Jaye. "Machine-Based Detection and Classification for Bone Marrow Aspirate Differential Counts: Initial Development Focusing on Nonneoplastic Cells." Laboratory Investigation (Sep 30 2019). <https://www.nature.com/articles/s41374-019-0325-7>
- Yousefi Safoora, Amirreza Shaban, Mohamed Amgad, **Ramraj Chandradevan** and Lee AD Cooper. "Learning Clinical Outcomes from Heterogeneous Genomic Data Sources." (2019). [Link @URL](#).
- *Early Experience in Developing a Machine-Learning and Digital Pathology Approach to Automate Bone Marrow Differential Counts.* Oral presentation at ACLPS 2018.