luneeb ul **Hassan**

Researcher · Data Scientis

Grenoble, France

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"Machine learning and deep learning enthusiast, currently seeking a position in a reputed company which utilizes my knowledge and focus that I bring to my work and provides the opportunity to expand my skills and experience."

| Education | |
|---|----------------------|
| Master of Informatics (Specialization in Data Science) | Grenoble, France |
| ENSIMAG, GRENOBLE INP | Sept 2018 - Present |
| Main Courses: Probabilistic Data Mining, Advance Leaning Models, ML and Object Recognition | |
| Master of Computer Science | Melbourne, Australia |
| RMIT University | Jan 2016 - July 2017 |
| • Main Courses: Data Science, Machine learning Fundamentals, Predictive Models, Big Data Processing, Mater Thesis | |
| B.E in Computer and Information Systems Engineering | Karachi, Pakistan |
| NEDUET | 2011 - 2014 |
| Main Courses: Data Structures, AI, Software Engineering | |
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Research Experience

Deep Learning Research Intern

IGIAB

- Working on a Explainable Deep learning for Multimedia Indexing and Retrieval.
- Conducting a survey on Explainable AI.
- Proposed a technique and submit a paper in a conference.
- Paper is accepted at CBMI 2019 conference.

Machine Learning Research Intern

RMIT UNIVERSITY

- Worked on the approach to optimise the deep learning hyper-parameters using hyper-heuristic for classification.
- Published a paper in A-rank Conference ICCS-2018

Software Engineering Experience

Software Engineering Intern

FUJITSU

- · Worked in Agile environment with daily Scrum meeting.
- Working in the Quality Assurance department (QA), which is responsible for testing the low, middle and high-end FUJITSU server.
- Automating and optimizing (TAO) QA server tests and everything around testing for the whole testing department.
- Implement new functionality, fixing Bugs using Java/Python and completed the tasks within a sprint.

Software Engineer

CDC HOUSE

- Fix bugs in the current system and enhance it with day to day requirements. Responsible to write queries to get data for the users. Also write a report of day to day work and report it to the Manager.
- · Responsible for developing new functionalities.

Projects

Explainable Deep Learning

Machine Learning, Deep Learning, Computer Vision, Python, Tensorflow, Keras, Numpy, Opency, PyCuda

- · Proposed a technique to explain the classification result of deep learning Model
- Submit a Conference paper CBMI'19

Image Captioning

DEEP LEARNING, NATURAL LANGUAGE PROCESSING, PYTHON, KERAS

Implement image captioning for Coursework in Keras

Karachi, Pakistan

Jan. 2015 - May. 2015

Grenoble, France Feb. 2019 - PRESENT

Melbourne, Australia Jan. 2017 - June 2017

Augsburg, Germany

Sept. 2017 - Sept 2018

Image/Video Segmentation

DEEP LEARNING, CONVOLUTIONAL NEURAL NETWORKS, COMPUTER VISION, PYTHON, KERAS, TENSORFLOW, CAFFE,

Scikit-Learn, Numpy

• Implement U-Net architecture for image/video segmentation

Parallelization of Deep Neural Networks

DEEP LEARNING, CONVOLUTIONAL NEURAL NETWORKS, PYTHON, PYMP

• Propose Parallelization of deep neural networks to speedup the training process.

A Bibliographic Study of GAN's

DEEP LEARNING, GENERATIVE ADVERSARIAL NETWORKS, IMAGE COMPLETION, IMAGE-TO-IMAGE TRANSLATION, STYLE

TRANSFER, PYTHON, KERAS

• Did a research study about GAN's and implement it in Keras

GDELT Data Analysis Using MapReduce(Hadoop)

DATA MINING, BIG DATA, HADOOP, PYTHON, NUMPY, PANDAS, SCIKIT-LEARN, AWS, DOCKERS

• Using GDELT data hosted on Amazon, and extract number of protests that have been reported or published in newspaper or digital Media from 1979-2016

Predicting Red Hat Business Value

DATA MINING, MACHINE LEARNING, NATURAL LANGUAGE PROCESSING, WEB SCRAPPING, DATA VISUALIZATION, PYTHON

• Participated in Kaggle Competition to predict the redhat business value

Skills_____

| Programming | Python, Java, C/C++, LaTeX |
|----------------------|--|
| Libraries/Frameworks | Sklearn, Numpy, Pandas, OpenCV, Keras, Tensorflow, Hadoop, MapReduce, Spark |
| Tools | PyCharm, RStudio, Weka, Matlab, Eclipse |
| Languages | English, French(Elementary) |
| Techniques | Data Mining, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Information Retrieval. |

Publications

ul Hassan, Muneeb, Nasser R. Sabar, and Andy Song. "Optimising Deep Learning by Hyper-heuristic Approach for Classifying Good Quality Images." *In International Conference on Computational Science*, pp. 528-539. Springer, Cham, 2018.[Rank A]

Muneeb ul Hassan, Philippe Mulhem, Denis Pellerin, and Georges Quénot. "Explaining visual classification using attributes." In 2019 International Conference on Content-Based Multimedia Indexing (CBMI). IEEE, 2019.[Accepted at CBMI 2019]

Interests _____

| Research, |
|------------------------|
| Reading, |
| Surfing Quora, Reddit, |