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Sarbashis Das

Data Scientist

About Me Experienced Data Scientist with a demonstrated history of leading diverse projects of various types. Skilled in Python, R, Data Analysis, and Machine Learning. Strong research professional with a Doctor of Philosophy (Ph.D.) focused on data analysis and modeling using different Machine Learning methods

Experience

2019 – Present *Data Scientist,* **Ericsson AB, Sweden**

2014 – 2019 *Senior Researcher/Researcher,* **Uppsala University, Sweden**
Projects:

- **Protein Function Prediction**
    - Dataset: Protein Sequences of total 35 millions collected from public databases
    - Prediction of protein functional class using Deep Neural Network.
    - **Tools: Python, Keras, Tensorflow, Jupyter, git**

- **Data Analysis of Heart Failure patients**
    - High-dimension gene expression data from different Heart tissues from heart failure patients.
    - Analysis: Dimension reduction using PCA, unsupervised clustering, identification of dysregulated genes.
    - **Tools: R, Python, Pandas, seaborn, git**

- **Analysis of Genomic data**
    - Dataset: Bacterial Genome Sequences
    - Analysis: Development of pipeline for analysis, annotation and genome comparison
    - **Tools: Python, R, git**

2013 – 2014, *Postdoc,* **Institute of Molecular Biology, Germany**

- Analysis on omics data
    - Analysis: Unsupervised Clustering, Dimension reduction using PCA, Differential Analysis.
    - **Tools: R, Python, Pandas, seaborn**

Education

2013 - 2009, Jawaharlal Nehru University (JNU), India.
Ph.D. in Computational Biology

2008 - 2006, Jawaharlal Nehru University (JNU), India.
M.Tech in Computational and System Biology

Certifications

Deep Learning Specialization
A five courses Specialization from Coursera

Structuring Machine Learning Projects
Part of the Deep Learning Specialization Course, Coursera

Neural Networks and Deep Learning
Part of the Deep Learning Specialization Course, Coursera

Improving Deep Neural Networks
Hyperparameter tuning, Regularization and Optimization. Part of the Deep Learning Specialization Course, Coursera

Convolutional Neural Networks
Part of the Deep Learning Specialization Course, Coursera

Sequence Models
Part of the Deep Learning Specialization Course, Coursera

Machine Learning A-Z ^{TM} Hands-On Python & R In Data Science
From Udemy

Introduction to Data Sciences
From Coursera

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Machine Learning
From Coursera

Professional Skills

Programming
- Python
- PERL
- R
- C++
- Shell
- C

Machine Learning
- Deep Learning
- Random Forest
- Neural Networks
- Regression
- Bayesian
- PCA

Machine Learning Framework
- Keras
- Tesorflow
- scikit-learn

Awards

2017, *Research Grant awarded as a co-applicant*
Title: Dynamics of gene regulatory networks in response to different stresses in Mycobacteria. Funding Agency: FORMAS.

2016, *Research Grant awarded as a co-applicant*
Title: Non-coding and regulatory RNAs in Mycobacteria. Funding Agency: Swedish Recearch Council (VR)

2012, *Awarded Wennergren Postodoc Fellowship*
Funding Agency: Wennergren Foundations. Grant offered, but gracefully declined due to accepting other Postdoc position)

2010, *Awarded Senior Research Fellowship*
Funding Agency: Council of Scientific and Industrial Research (CSIR), Government of India.)

2006, *Awarded Scholarship for Master of Technology*
Funding Agency: Department of Biotechnology (DBT), Government of India.)

Conferences Attended

2018, Deep learning for predicting protein DNA and RNA binding Tutorial (ECCB)
Attended the Tutorial in Athens, Greece.

Interests

Professional
Data analysis, Machine Learning, Computational Biology, Bioinformatics, Software development

Personal
Photography, Cooking