Raktim Mondol

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EDUCATION

UNSW, SYDNEY
PhD in Computer Science & Engineering
Thesis Submitted
Jan 2025
Thesis: Deep Learning for Breast Cancer Prognosis

RMIT UNIVERSITY
MS by Research in Computer Science & Bioinformatics
Graduated Dec 2019 | Melbourne, VIC
Graduated with High Distinction
Thesis Summary

SKILLS

Languages:
R • Python • SQL • LaTeX
Deep Learning Framework:
Pytorch • Tensorflow
Distributed & Cloud Computing:
AWS • GCP • Galaxy
IDE:
Spyder, Jupyter Notebook, Rstudio
Software:
Stata, SPSS, MATLAB
OS:
Linux • Windows

AWARDS

- PhD Scholarship at UNSW (2021)
- Master's by Research with High Distinction (2019)
- Master's Scholarship at RMIT (2017)
- Bachelor with High Distinction (2013)

LINKS

Github:// **raktim-mondol**
LinkedIn:// **rmondol**
Researchgate:// **RaktimMondol3**
Twitter:// **@raktimmondol**
Academia:// **RMondol**

COURSEWORK

ONLINE
Machine Learning
Deep Learning
R Programming

SUMMARY & RESEARCH INTERESTS

I am an experienced data scientist and programmer (R & Python), with deep expertise in artificial intelligence (AI), bioinformatics, computer vision (CV), and high-performance computing (HPC). I have a solid research background focused on analyzing large datasets and statistical analysis. I am a dedicated and committed individual with a strong team-oriented spirit, a positive attitude, and exceptional interpersonal skills.

EXPERIENCE

CASUAL ACADEMIC | UNSW
July 2021 – Continuing | Sydney, NSW
- Conduct Laboratory and Tutorial Classes

TEACHING ASSISTANT | RMIT University
July 2017 – Oct 2019 | Melbourne, VIC
- Conducted Laboratory and Tutorial Classes

RESEARCH

BIOMEDICAL IMAGE COMPUTING | Doctoral Researcher
March 2021 – Continuing | SYD, NSW
Developing AI model to assist pathologist in breast cancer identification and treatment recommendation.

NEUROSYD RESEARCH LABORATORY | Postgraduate Researcher
March 2017 – 2019 | SYD, NSW
Worked on developing a deep learning model and bio-informatics pipeline to extract bio-markers from high-dimensional data.

PUBLISHED JOURNAL

Mondol, R.K.; Millar, E.K.A.; Sowmya, A.; Meijering, E.
BioFusionNet: Deep Learning-Based Survival Risk Stratification in ER+ Breast Cancer Through Multifeature and Multimodal Data Fusion, in *IEEE Journal of Biomedical and Health Informatics*, 2024
Code: https://github.com/raktim-mondol/BioFusionNet

Mondol, R.K.; Millar, E.K.A.; Graham, P.H.; Browne, L.; Sowmya, A.; Meijering, E.
hist2RNA: An Efficient Deep Learning Architecture to Predict Gene Expression from Breast Cancer Histopathology Images, in *Cancers*, 2023
Code: https://github.com/raktim-mondol/hist2RNA

Mondol, R.K., N. D. Truong, M. Reza, S. Ippolito, E. Ebrahimie, and O. Kavehei
AFExNet: An Adversarial Autoencoder for Differentiating Breast Cancer Sub-types and Extracting Biologically Relevant Genes, in *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2021
Code: https://github.com/NeuroSyd/breast-cancer-sub-types