

# Raktim Mondol

Permanent Resident • Full-time working rights mondol.me <sup>☑</sup> | Sydney, Australia | Mob. +61412936237

# **EDUCATION**

#### **UNSW, SYDNEY**

PHD IN COMPUTER SCIENCE & ENGINEERING (CONTINUING)
Anticipated Completion Date Dec 2024

**Project:** Histopathology image and genetic data analysis using AI

#### **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 • MTEX
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 (2020)
- 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