



Soumen Bera

Research Associate, Indian Statistical Institute, Kolkata

Research Associate with 4 years of experience in building deep learning-based solution architecture to answer diverse research queries. Expertise in handling large genomic data set having immense feature dimensions. Proficient in data scaling, data imputation and high-level languages like Python and C.

✉ bera.soumen@gmail.com

☎ +91 9432514380

📍 Kolkata, India

🌐 [linkedin.com/in/soumen-bera-2b92056b](https://www.linkedin.com/in/soumen-bera-2b92056b)

WORK EXPERIENCE

Research Associate Indian Statistical Institute

12/2017 - Present

Kolkata, India

- Engaged in designing a deep learning framework to predict the survival class of cervical cancer patients using multi-omics data
- Commissioned in designing a GAN based deep learning model to impute missing values in a multi-omics data environment

Assistant Professor Academy of Technology

01/2013 - 12/2017

Kolkata, India

a graduate and postgraduate level engineering college under West-Bengal University of Technology

- Supervise masters and graduation level dissertation
- Teaching several theoretical and practical papers of Computer Science and Engineering to undergraduate and postgraduate students
- Grooming students through personal interviews and group discussion sessions to make them industry-ready

Assistant Professor Modern Institute of Engineering & Technology

09/2012 - 12/2012

Kolkata, India

an engineering college under West-Bengal University of Technology

- Teaching and conducting several theoretical and practical classes of Computer Science and Engineering

EDUCATION

M.Tech University of Calcutta

07/2010 - 06/2012

Kolkata, India, First Class

- Information Technology

MCA University of Calcutta

07/2007 - 06/2010

Kolkata, India, First Class Third

- Computer Applications

B.Sc. University of Calcutta

07/2004 - 06/2007

Kolkata, India

- Computer Science(Hons.)

SKILLS

C

Python

Deep Learning

Machine Learning

scikit-learn

Pandas

NumPy

SQL

Keras

Survival Analysis

Problem Solving

Communication

ACHIEVEMENTS

University First Class Third

Ranked First Class Third with distinction at MCA degree in 2010

DRDO fellowship

Achieved DRDO fellowship in the year of 2011-2012

GATE fellowship (07/2010 - 06/2012)

Cracked GATE in the year of 2010, 2011, 2012 and 2015

PROJECTS

Multidimensional Research to enable Systems Medicine: Acceleration using a Cluster Approach (12/2017 - Present)

- @ Indian Statistical Institute, Kolkata, India, a multi-institute project funded by DBT, GOI
- Research and development activity on cervical cancer
- Integrating multi-omics data to find clinically relevant outcomes under Deep Learning framework

Object Detection and Counting (2011 - 2012)

- @ University of Calcutta, Kolkata, India and Sponsored by Defence Research and Development Organisation
- Detection and counting of circular partial occluded objects and inoculated objects of any shape from an image
- Hidden edge reconstruction of overlapped circular objects

CERTIFICATES

Data Analytics (03/2019)

Certified by Interdisciplinary Statistical Research Unit, Indian Statistical Institute, Kolkata

Systems Biology (07/2018)

Summer school conducted by National Institute of Biomedical Genomics, Kalyani

INTERESTS

Photography

Fixing and Repairing Things

Traveling

Asset Management