

Munshi Imran Hossain, MS

🏠 MuSigmas Consultants, India
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Born: April 30, 1984
Indian national



PROFILE

A passionate, dedicated and efficient statistician with many years of experience in statistical and data science consulting.

WORK EXPERIENCE

OCTOBER 2024 – PRESENT

Chief Data Scientist,
MuSigmas Consultants S.L., Barcelona, Spain

Provide support on data science and machine learning problems related to trial design for drugs and devices.

APRIL 2018 – SEPTEMBER 2024

Research Consultant, Innovative Statistics and Data
Science
Cytel, India

Part of strategic consulting team working on adaptive trial design and analysis, Bayesian designs for multi-arm multi-look trials, data science for bio-signature development, and software development. Leading validation of software tools like R and Posit products for use in a validated environment.

JULY 2016 – MARCH 2018

Senior Data Scientist
Cytel, India

Worked on data science problems related to clinical trials. Validation of non-invasive device for detecting dysphagia using accelerometer data. Part of the data science team that worked on analysis of trial for Hepatitis vaccine that led to approval by FDA.

JULY 2012 – JUNE 2016

Software Engineer
Cytel, India

Worked on developing Cytel's proprietary software products like East® for design and analysis of clinical trials. This role involved developing core computation modules in C++, unit testing and bug fixing, working as an SME for discussing requirements, writing technical documents and creating mock-ups.

EDUCATION

2010 – 2012 **Master of Technology**
BIOMEDICAL ENGINEERING
Indian Institute of Technology Bombay
India

2005 – 2009 **Bachelor of Technology**
ELECTRONICS AND INSTRUMENTATION
ENGINEERING
West Bengal University of Technology
India

COMPUTER SKILLS

Programming & Software R, Emacs-OrgMode, C, C++, Python, BUGS, Stan, Julia

Platforms Mac OSX, Linux, Windows, AWS

OTHER SKILLS

Public Speaking, Cooking

REFERENCES AND PUBLICATIONS

A Tutorial on Modern Bayesian Methods in Clinical Trials, *Muehlemann, N., Zhou, T., Mukherjee, R., Hossain, M.I., et al.*, Therapeutic Innovation & Regulatory Science, 57, 402-416, 2023