



Satyajit D. Rao
Chemical Engineering
Indian Institute of Technology, Bombay

113020007
M.Tech.
Male
DOB: 14/07/1988

Examination	University	Institute	Year	CPI / %
Post Graduation	IIT Bombay	IIT Bombay	2012	8.77
Undergraduate Specialization: Chemical Engineering				
Graduation	Mumbai University	Institute of Chemical Technology	2010	70.65
Intermediate/+2	Maharashtra State Board	Devgiri College, Aurangabad	2006	89.33
Matriculation	Maharashtra State Board	St. Lawrence, Aurangabad	2004	89.33

Academic Achievements

- All India Rank **3179** in IIT(Indian Institute of Technology) Joint Entrance Examination, 2006
- All India Rank **1062** in AIEEE (All India Engineering Entrance Examination), 2006
- Awarded National Talent Search Scholarship (**NTSE**) by NCERT, 2004
- Qualified for **Indian National Chemistry Olympiad** (InChO), 2006
- Ranked **2nd** (across all colleges in Mumbai) in Aptitude Test in Chemistry conducted by Indian Chemical Society (**ICS**), 2007

Key Academic Projects and Seminars

Honours Projects

Stochastic Modelling of Network Motifs

(2011- present)

Under Prof Ganesh Viswanathan, IIT Bombay

- Modelled Dynamics of complex networks using Hopfield Model in order to investigate topological features like robustness and sensitivity
- Determined sizes of basins of attraction of Random Networks for application to TNF-Signaling Pathway to extract possible therapeutic targets

Design Plant to Manufacture Cuprous Chloride, (2009 - '10)

Prof. A.B. Pandit, ICT, Mumbai

- Conducted Process Selection, Process computations, Process Design of all components, Mechanical Design and Financial Analysis

Seminars

Dynamics of TNF- Signaling Network (2012)

Prof Ganesh Viswanathan, IIT Bombay

- Conducted a literature review on Signal Transduction Network of TNF-
- Performed Logical Steady State Analysis of Boolean

New Coolants in Nuclear Reactors (2009)

Prof. Ashwin W. Patwardhan, ICT, Mumbai

NIUS (National Initiative for Undergraduate Research), HBCSE-TIFR, 2006-'07 : Diazotization of aliphatic Amines

Extra Curricular Activities

- Event Coordinator- Dexter's Lab, Exergy 2010, Institute of Chemical Technology, Mumbai
Exergy is the Technical Festival of ICT, Mumbai.
- Finished 3rd, Technical Debate, Exergy 2009.
- Ranked 1st in Industry Defined Problem by UHDE, India Ltd. at Young Innovators Choice Competition (YICC), ICT, 2009

Industrial Training

Ipca Laboratories, Aurangabad (*May- July 2009*)

Calculation of water keys for different compounds produced at the facility

Optimization of Water usage in batch plant