Devendra Kumar   09002023
Chemical Engineering   UG Third Year (B.Tech.)
Indian Institute of Technology, Bombay   Male
                                       DOB: 25/07/1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	7.18
Intermediate/+2	Board of Secondary Education , Rajasthan	Central Public Sr. Sec. School, Kota	2009	89.85
Matriculation	Board of Secondary Education , Rajasthan	Mayur Nobles Academy School, Barmer	2007	88.83

SCHOLASTIC ACHIEVEMENTS

- Secured an All India Rank of 2203 in **IIT-JEE** 2009, among the 450 thousands aspirants
- Was in top 0.3% students in **AIEEE** 2009, among the 1 million aspirants
- Secured **101** Rank in **RPET** 2009 (Rajasthan Pre Engineering Test) among 70,000 candidates
- Was awarded Ministry of Human Resource Development Scholarship for 36th Rank in HSc Exam

KEY ACADEMIC PROJECTS

Mini Unique Identification Project   **(Oct'09-Nov'09)**
Guide: Prof. D.B. Phatak, Department of Computer Science, IIT Bombay

- A project on the similar lines of Unique Identification Authority of India (UIDAI)
- Project aimed at assigning a unique identification number to the student using his/her biometric data
- Pattern recognition, image modification and sharpening were used to match fingerprints for Robust Detection
- Implemented concepts of Object Oriented Programming

Polymer Physics and Molecular Simulation(Structure-Property Relationship) **(May'11-till date)**
Guide: Prof. H.N. Nanavati, Department of Chemical Engineering, IIT Bombay

- Analysis the effect of stress and force applied on structure of chain considering statistical segment
- Computation of moments of vector length distributions in polymeric chains using MATHEMATICA software

Numerical Analysis Project   **(March 2011)**
Guide: Prof. Mani Bhushan

- Coded a project in Scilab to calculate solution of differential equation using orthogonal collocation and finite difference method

INDUSTRIAL EXPERIENCE

Rashtriya Chemicals and Fertilizers Ltd.   **(Jan'10)**
Guide: Prof. Sanjay M. Mahajani, Department of Chemical Engineering, IIT Bombay

- Successfully completed the training program on "Sulphuric Acid Technology" conducted by "Rashtriya Chemicals and Fertilizers Ltd"
- Worked on DADC (Double Absorption Double Contact) technology to produce Sulphuric Acid for industries
- Carried out a detailed mass and energy balance for the Sulphuric Acid production plant
- Prepared a report and presented the complete working of the Sulphuric Acid production plant

SOFTWARE SKILLS

- **Programming Languages** : C, C++, Scilab, MATLAB
- **Operating Systems**   : Windows , Linux
- **Tools and applications**   :   MATHEMATICA, MS Office

EXTRA CURRICULAR AND SOCIAL ACTIVITIES

Basic Mountaineering Course (BMC)   **[2010]**

- Extensively trained for high altitude rock climbing, carrying loads of more than 20 kg
- Learnt safety and survival techniques in high altitude landscape which included dealing with emergencies and altitude identification based on flora and faun
- Scaled height of over 16000 ft ,learned snow, glacier ,ice crafting ,crevasse rescue

Sports Secretary, Hostel 7   **[Aug'10-Apr'11]**

- Led the hostel to General Championship position of 4 from 7 in a year duration
- Initiated Intra-Hostel Volleyball, Frisbee and Football Championship which revived the enthusiasm and achieved an increase in participation in Inter-Hostel GC's

Coordinator, Techfest'11

IIT Bombay's annual technology festival, attended by students from across the country

- Worked as the coordinator in Hospitality department of Techfest and handled the accommodation of around 4000 people, along with the team manager

National Social Scheme (NSS)
- Member of NSS in Group for rural activities (GRA) & Educational outreach
- Attended 2 day village Camp under group for rural development for gathering information and discussing their problems .

- Secured 3rd position in district level Table Table Championship   [2004]
- Stood 3rd in wireless remote control car competition   [2009]
- Participated in the Performing Arts Festival (PAF), IIT Bombay
- Participated in Gyrations - The inter hostel dance competition of IIT Bombay
- Participated in Blood donation Camp organized at IIT Bombay