

# MUSKAN KUKREJA

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## Education

- **DA-IICT University BTech(ICT)**—Gandhinagar, Gujarat, India  
*Majoring in Information and Communication Technology, April 2008*
  - GPA : **8.08/10** (Till 6th Sem), **8.26/10** (ICT major)
  - Avg.GPA: First Year: 6.35/10, Second Year: **9.21/10**, Third Year: **8.8/10**
- **Class XII**—St John, Kota, Rajasthan, India  
*Percentage: 79 (overall), Maths:92, Year:2003*
- **Class X**—St Aloysius, Jabalpur, MadhyaPradesh, India  
*Percentage: 81 (overall), Maths:91, Year:2001*

## Skills

- **Operating Systems:** Linux (Red Hat and Fedora Core), Windows 98/2000/XP
- **Computer Languages:** C, HTML, Java,  $\LaTeX$ , JSP, JavaScript, SQL
- **Tools:** Apache Tomcat, IBM Eclipse, MySQL/DB2 Database Server, JCreator Pro/LE
- **Bioinformatics Tools:** Blast, Clustal, BioSpiM, SpiM

## Electives Taken

- **Technical** Computer Algorithms, Distributed Computing, Cryptography, Biotechnology
- **Technical(Pursuing)** Models of Computation, Introduction to Discrete Simulation, **Foundation on Computational and Systems Biology**

## Internships

- **Research Internship: Prof Manish K.Gupta (DA-IICT), India, May-July 07**
  - Two months internship on abstract state machine of systems biology(Protein, Gene and Membrane Machine) and basics of HIV-1 Virus
- **Industrial Internship: Reliance Communication Bangalore, India, Jun-July 06**
  - Two months in Reliance Communications understanding LMDS and UBRS Networks.
- **Rural Internship: Jivala School of Mentally Retarded People, Sholapur, Maharashtra, India, May-June 05**
  - Two months internship serving and understanding the problems of rural folk.

## Important Courses and grades

- **Calculus, Discrete Mathematics, Biotechnology, Cryptography:** A grade
- **Data Structures and Algorithms, Computer Algorithms, Computer Networks:** A grade
- **Basics of Communication System, Digital Communication, Solid State Devices:** A grade

#### Computer-Science Course Projects

- **MetaCode:(Team Size 10)-Guided by Prof Asim Banerjee(DA-IICT)**
  - Team Leader of an online programming contest web service.
- **IBM Academic Initiative (Team Size :4) - Guided by Prof R.B Lenin (DA-IICT)**
  - INVITE 2005 -Web Portal for artist, a Gujarat govt. Project.
- **Airline Reservation System (Team Size :4)-Guided by Prof Anutosh Maitra(DA-IICT)**
  - Web based solution for Airline reservation system.

#### Computational and Systems Biology Course Projects

- **Simulation of biochemical reactions in SpiM : Guided by Prof R.B.Lenin(DA-IICT)**
  - This is part of Introduction to Discrete Simulation Course.
- **Modeling HIV-1 Virus in Stochastic  $\pi$  -Calculus : Guided By Prof. Manish Gupta(DA-IICT)**
  - This ongoing project is part of Computational and Systems Biology Course.
- **Bio Simulation Software: Working of CLC WorkBench :Guided by Prof. Sunita Jha(DA-IICT)**
  - This project was a part of Introduction to Biotechnology course.

#### Talks and Presentations

- **Date:27-09-07 DA-IICT** Process Algebra, Stochastic  $\pi$  -Calculus.
- **Date:15-06-07 DA-IICT** Abstract State Machine of Systems Biology, Reterovirus like HIV-1.
- **Date:10-10-06 DA-IICT** Bio-Simulation Software demonstration of CLC WorkBench.

#### Acheivements

- IBM Certified for Gujarat Informatics Project.
- Class X CBSE Social Science 97/100, Amoung 1 % in India.
- AIEEE 2004 All India Rank: 7651 out of more than 2 Lakhs
- IIT-JEE 2004 Screening Rank: 8004 out of 2 Lakhs, Mains Rank: 7051
- GRE Score 1350/1600

#### Research Interest

- **Computational and Systems Biology**
- **Disease Modeling, Stochastic  $\pi$  -Calculus**
- **Computer Algorithms, Data Structures, Automata theory and formal languages**

#### References

- **Prof Manish K.Gupta**  
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