

Varun Sharma

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CAREER OBJECTIVE

An enthusiastic undergraduate student wants to pursue research in the field of biochemistry, under the guidance of eminent scientists in a reputable international institute that supports career growth and provides an opportunity to expand upon my existing skills.

EDUCATION

Bachelor of Technology

2010 - 2014

Bachelor of Technology in Biotechnology from **National Institute of Technology Jalandhar**, India | *Highly regarded and competitive Indian technical institutes*

- Achieved **7.71** CGPA on a scale of 10 (comparable to **3.7** GPA)
- Awarded **A** grade for a **research project** entitled '**Secondary structure analysis and prediction of mutated structures of pigeon pea urease, binding site analysis and docking analysis of pigeon pea and modeled ureases**' as a partial fulfillment of the degree requirements. Thesis on this project is **under review** in an international journal

RELEVANT COURSE WORK

- Biochemistry, Genetic engineering, Molecular Biology, Bioinformatics, Biopharmaceuticals
- Separation Methods in Biotechnology, Bioprocess Engineering, Food Process Biotechnology
- Enzyme Engineering and Technology, Plant Cell and Tissue Culture Engineering
- Protein Engineering, Bioprocess Modelling, and Simulation, Industrial Biotechnology
- Computer programming, Numerical Methods, Engineering Economics and Management
- Heat and Mass Transfer, Fluid Particle Mechanics, Biological Waste Treatment

ACADEMIC ACHIEVEMENTS

- Top **10%** in *Graduate Aptitude Test in Engineering*:
One of the most competitive examinations in India, which primarily tests the comprehensive understanding of various undergraduate subjects in engineering and science.
- Attained IInd position in the event **Bio- Paradigm** at **Bio-cAMP' 12: National Symposium on Biotechnology**:
I proposed and worked on a new idea of **aerating** a fermenter, so that *DO* concentration increases for an aerobic process.
- Top **3%** in *All India Engineering Entrance Exam*

SUMMER INTERNSHIP

Himachal Pradesh Horticultural Produce Marketing & Processing Corporation (HPMC) Ltd. | Parwanoo, Solan (H.P.), India
A Government of H.P. Undertaking

Summer 2013

Summer Intern Trainee in the Quality control department;
Hands-on training in downstream processes like centrifugation, clarification (Bentonite and gelatine treatment), filtration, aroma recovery and pasteurization, concentration and storage.

EXPERIENCE

Think & Learn

Jul 16- May 17

Faculty and Content Developer

- Analysis of academic data to prepare content of study material
- Created info graphs and delivered video lectures for e-lectures
- Head of content development department (Delhi region)

Aakash Institute

2014 - 16

Assistant professor

- Taught Physics to Grade 12 students to prepare them for university entrance exams
- Worked in content development department.

SKILLS

Computer proficiency: Data analysis (visualization and modelling) using R and Python algorithms, MATLAB, C++, Perl, Java script, Microsoft office applications (Word, PowerPoint, Excel), Linux

Bioinformatics tools: PyMol, BLAST, Autodock 4.2, LIGPLOT, Hotspot Wizard, MGL tools, Clustal Omega, PROCHECK, I-Tasser server, EMBL-EBI, UCSF Chimera

Equipment: Pilot scale bioreactor for performed production of protein, all commonly used lab equipment

ORGANISATIONAL and TEAM ACTIVITIES

2010 - 14: Executive member of Society of Biotech Engineers and Researchers (SOBER), NIT Jalandhar

2013 – 14: Placement representative of Department of Biotechnology for Batch 2010- 2014.

2013: Co-Headed the departmental event 'Bio-Scio Quiz', a literary event held during Techniti- Technical Fest of NIT Jalandhar.

2012: Eminent member of the technical committee in Chemcon held at NIT Jalandhar.

LANGUAGES

- English
- Hindi, Punjabi, and Pahari (Mother's tongue)

REFERENCES

Dr. Vinod Yata
Assistant Professor
National Institute of
Technology, Jalandhar
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