

SNEHA S KELKAR

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3rd year B.Tech Biotechnology student with minors in economics at Vellore Institute of Technology with an excellent academic record and a keen interest in genetics and entrepreneurship. I want to merge my technical and management skills in order to develop new products via intense research and get involved in IPR.

Education

B.Tech, Biotechnology	2018-2022
Minors in Economics	2021-2022
V.I.T,Vellore,9.82 GPA	2021
VIT,Vellore ,9.55 GPA	2020
V.I.T,Vellore, 9.6 GPA	2019
12 th (Senior Secondary Examination) CBSE Board, 90% (PCMB)	2018
10 th (Secondary Examination) ICSE Board, 97%(PCMB)	2016

Skills

- BIOTECHNICAL SKILLS: genetic cloning, disc diffusion, immunology tests in the laboratory like immunodiffusion, DNA isolation, transformation, PCR, plating, cloning, cell line propagation, mass spectrometry.
- TECHNICAL: Programming Languages – C, C++, Python , Matlab, R programming, Java, illustrator.
- PERSONAL : Public speaking, event management, HRM ,content writing, leadership, hard work.

Trainings & Internships

- Chosen for Mitacs Global link scholarship programme for a 4 month internship at University of British Columbia (Fully funded internship in May 2021 under Dr Derek Dee) 2021
- Interned in IIT Delhi under Dr Satyawati Sharma on her project on Mycelia December 2020
- Intern at WiCR (Women in crisis response), USA December 2020
- Interned at Ministry of food processing and Industries (MoFPI) government of India(R&D) November 2020
- Chosen for 8 week training at Infosys ,Summer of Ideas September 2020
- Digital Marketing intern at MANCH (National assembly) September 2020
- Internship at Agixury as a Human Resource Manager August-October2020
- Internship at Door Step School NGO as social media and content in charge July-September 2020
- Internship at e-Vidyaloka NGO as an English teacher July 2020
- Promotion into the core team of Humourbaba August 2020
- Digital marketing and Content writing at Humourbaba June-August 2020
- Internship at Serum institute of India (Vaccine manufacturer) 23rd December-4th January 2020
- Internship at Ayurvedic Rasashala (ayurvedic pharmaceutical manufacturing company) 4th June-5th July 2019
- Summer internship at Katraj dairy 2nd May -3rd June 2019
- Ashwa wearable Pvt Ltd as a biomedical researcher December 2018- February 2019
- DST inspire training camp at IISER Pune July -August,2016

Academic Achievements

- Branch topper and holder of merit scholarship at VIT 2020
- Programme representative of school of life sciences VIT 2020
- Received a funding from the Technology business Incubator at VIT for developing a prototype thus incubated as a start-up 2020
- Research head of SABEST(student association of biotechnology) 2020
- Won the state level bio-debate 2020
- Secured 113 in TOEFL 2019
- Program Representative of the school of life sciences ,VIT 2019
- Branch topper and holder of merit scholarship at VIT 2019
- Co-ordinator of ideathon by Siemens 2019
- Co-ordinator of BID fest in bio-mimicry 2019
- Manager and host at E-summit 2019 (South India's largest business fest) 2019
- Won best idea in the Indo japan international Bio Summit 2018
- Cleared VITEEE,JEE,NEET and IISER SCB CHANNEL 2018
- Has participated and got top 100 rank in NSO
- Cleared PBISE exam by BITS PILANI and was awarded a scholarship 2018
- Won the state level 44th Jawaharlal Nehru quiz competition and went to IISC Bangalore for nationals where I came 4th September 2017

ACHIEVEMENTS IN INTERNATIONAL HACKATHONS

- Chosen for final stage of MIT hackathon, hack 4 the future, International 2020
- Top 8 teams in MIT Hacking racism hackathon, International 2020
- Chosen for final stage of MIT hackathon, Turning the tide 2020
- Participated in NASA international space challenge,2020 from Delft, Netherlands 2020
- Idea selected in Infosys , Summer of Ideas 2020

Projects

- Worked on a 6 month project on enzymes secreted by a new species of bacteria. I worked on solid state fermentation, microbiology, media optimization, identification of bacteria, growth and production kinetics as well as DNSassay and SDS page.
- I worked on a project of microbiology where I compared the effect of different concentrations of soap vs sanitizer and the effect on various species of soil and hand bacteria.
- I worked on a nano-biotechnology project in which I made Au coated Pd nanoparticles using their respective chlorides and designed a model of a reactor clean water from harmful dyes using these particles.
- I worked on a bio-business project where I made an anti-microbial after wash agent from natural sources.
- I am also working on a start-up that deals with malnutrition and hidden hunger and have got initial funding.
- Working on a protein engineering project to study proteopathic diseases with focus on neuro-degenerative diseases caused by protein mis-folding
- Social entrepreneurship project on flower biodegradable waste and it's use
- Pharmaceutical biotechnology project on Tamoxifen and it's mechanism
- COVID-19 impact to the environment environmental biotechnology project
- Lean start up management project on alcohol and the home remedies

Extra-curricular Activities

- Deputy managing director of Entrepreneurship Cell VIT.
- Research and development head at SABEST.
- 2nd year NCC Cadet and took part in 26th January parade
- Coordinator at Gravitas ,Event management committee
- Was a committee member of: Debate society of VIT, MUN society of VIT, International chapter for biotechnologist (Society of biological engineers), Rotract (NGO)
- A trained Bharatanatyam dancer with A+ grade in all 5 exams
- Fond of classical music and playing of harmonium and have completed 6 levels

- Expertise in painting and have won state level painting competitions
- Cultural captain of Kendriya Vidyalaya
- Hosted the national KV sports meet at Bale wadi stadium
- Participated in Inter College -table tennis competition
- Achievements in debate ,chess, youth parliament, cooking and MUNing etc (best delegate award)
- Took part in speak for India ,Tamil Nadu edition
- Participated in Ramaiah national debate competition ,Banglore

GRADES AND COURSES IN VIT

SEMESTER 1 :: Food and Nutrition, Python , Calculus for Engineers , Physics for Engineers , Environmental science , Ethics and Values ,English, Soft Skills -9.32 GPA

SEMESTER 2 :: Microbiology, Cell Biology and Genetics , Bio-Chemistry ,Chemistry for Engineers , C , C++, Statistics ,Soft Skills ,English for engineers -9.82 GPA

SEMESTER 3 :: Analytical techniques in biotechnology, Molecular biology and genetics, industrial biotechnology, nano-biotechnology, soft skills, animal biotechnology, food and nutrition ,IIP(project) -9.6 GPA

SEMESTER 4 :: Down stream processing, principle of chemistry , genetic engineering, immunology and immunotechnology, bioinformatics, soft skills, bio-business, electrical and electronical engineering , Bioinspired design, Logistics and supply chain management, Marketing management -9.5 GPA

SEMESTER 5 :: Spanish, Programming in Java , Chemical reactions , Learn start up management, Social entrepreneurship, Forensics and technology, Environmental biotechnology, Pharmaceutical biotechnology, Plant biotechnology -9.82 GPA

SEMESTER 6 :: TARP, Food process technology, bioprocess engineering , developmental biology, JAVA, molecular modelling and drug design, natural disaster mitigation and management, micro-economics, international economics ongoing

Online courses completed

Food ,Nutrition and Health certificate by open universities Australia

Leadership: Identity , Influence and Power by MGSM(Macquarie graduate school of management)

Introduction to molecular spectroscopy Course by University of Manchester

Fundamentals of Immunology by RICE

Bioinformatics Methods 1 by University of Toronto

Genetics course for educators

DNA decoded

Business fundamentals and other financial management courses

Courses on IPR, patents, trade marks, trade secrets, copyright

Languages

English (fluent)

Hindi (fluent)

Marathi (intermediate)

Spanish(intermediate)

References

1) Dr. Suneetha

Professor

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2) Dr . James Jabseelan Samuel

Professor

School of Advanced Sciences(Physics) ,VIT ,Vellore ,India 632014