Yogen Borkar

Mumbai, India

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Education

- **Birla Institute of Technology and Science, Pilani**
  Bachelor of Engineering (Hons.) in Chemical Engineering
  Cumulative CGPA: 8.24
  Goa, India
  August 2018 to July 2022 (expected)

- **PTVA's Sathaye College**
  Maharashtra Higher Secondary School Certificate (Class 12)
  Percentage: 87.08%
  Mumbai, India
  Graduated May 2018

- **Parle Tilak Vidyalaya English Medium School**
  Maharashtra Secondary School Certificate (Class 10)
  Percentage: 92.6%
  Mumbai, India
  Graduated May 2016

Research Experience

- **Study on the effect of coagulation bath on the properties of the nanofibers synthesized via electrospinning - Nanotechnology, Polymer Chemistry**
  August 2020- Present
  A study oriented project in learning the effect of coagulation bath on the formation of different morphologies of the nanofibers produced via electrospinning. Learnt how to interpret data for various characterization techniques like SEM, XRD, etc and about applications of helically coiled nanofibers in diverse areas.

- **iGEM Competition 2020, BITS Goa**
  Member of the Dry Lab and Biochemical Modelling Teams
  January 2019 – Present
  Currently working under the supervision of Dr. Sumit Biswas, as part of the iGEM 2020 team, on reduction of post-harvest losses in sugarcane, by using genetically engineered bacterial systems. Helped with Human Practices, Implementation, Entrepreneurship and Mathematical modeling of biological systems.

- **Research Intern, Dhio Research and Engineering Pvt. Ltd.**
  May 2020 – Jun 2020
  Researched on multiscale modeling for materials and worked on the '*Dissipative Particle Dynamics Modeling For A Carbon Nanocomposite in J-OCTA*'. The final model was used to evaluate elastic properties of polystyrene based nanocomposite.

- **'Lab on a Brick' ,IDEATHON, BITS Goa**
  October 2019
  Project Lead
  Participated and came second in the Ideathon organized by BITS BIRAC Bionest. The idea consisted of designing a customizable point of care diagnostic device using LEGO bricks. The model would use *microfluidics* and *biosensing* for detection by simple colour change reactions.

Skills

MATLAB, ASPEN, COMSOL, basics of Python and C programming languages, J-OCTA, AutoCAD, MS Office, MS Excel, MS Powerpoint

Relevant Courses

Chemical Engineering	Material Science and Engineering, Heat transfer, Fluid Mechanics, Biochemical Engineering, Kinetics and Reactor Design, Engineering Chemistry, Process Designing Principles
Chemistry	Supramolecular Chemistry, Bio and Chemical Sensors, Polymer Chemistry
Others	Systems Biology, Computer Programming, Engineering Graphics, Introductory level laboratory courses to Biology, Chemistry and Chemical Engineering

Extra-curricular Activities

- Coordinator and Convener at Srutilaya, the BITS Goa Indian Classical Music club; responsibilities involved maintaining faculty relations, finances and successfully organizing events to improve awareness of Indian Classical Music on campus.
- Taught the 9^{th} and 10^{th} standard students of A. A. Padhye School, Devrukh, Ratnagiri, under the able guidance of Mrs. Jennifer Gadgil, giving me valuable knowledge and insight into the efforts that are put into teaching.
- Performed and accompanied on harmonium in multiple cultural events in school and college.
- Supervised the functioning of Student Council as the Head Boy in school.
- Other interests include reading literature, drama, history, etc. because of which I have taken courses like Modern Fiction, Modern Political Concepts, Main Currents in Modern History. I am also a cooking and gardening enthusiast.