

JEHAN DAFTARI

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EDUCATION

- **BITS Pilani, K.K. Birla Goa Campus** Aug '23 - May '27 (expected)
B.E. in Electronics and Instrumentation Engineering CGPA: 6.62 / 10
- **PACE Junior Science College** Jul '21 - Jun '23
High School Diploma GRADE: 85.33 %

SKILLS

- **Languages:** Java, C, C++, Python, Flutter, HTML, JavaScript, Verilog.
- **Tools/Platforms:** Git, GitHub, Excel, Visual Studio Code, Autodesk AutoCAD LT, Origin.
- **Experimental Skills and Techniques:** Spectrophotometry, Sputtering, Microscopy, Spin Coating, Synthesis of Particles.
- **Languages:** English, Hindi, Marathi, Gujarati.
- **Marketing, Sales and Public Relations:** Sponsorship, Operations and PR.

EXPERIENCE

BITS Pilani, KK Birla Goa Campus

Undergraduate Research Assistant

Mar '24 - Present

- Title: **Make a one-pixel liquid crystal display.**
PI: [Dr. Indrani Chakraborty](#).
- Designed, built and calibrated a one-pixel twisted nematic display to show perfect switching of states between on and off.
- This setup can also be used as a sensor for systems studied under a microscope under the effect of electromagnetic fields.

BITS Pilani, KK Birla Goa Campus

Undergraduate Research Assistant

Dec '23 - Present

- Title: **Developing a Liquid Crystal-based Thermometer**
PI: [Dr. Indrani Chakraborty](#).
- Made samples of the ChLC composed of Cholesteryl Pelargonate, Cholesteryl Benzoate and Cholesteryl Oleyl Carbonate.
- Studied the properties of the Cholesteric Liquid Crystal (ChLC) along with how different components affect the sample.
- Formulated various liquid crystals with a precision of 1 degree Celsius, thus satisfying the experiment's aim.
- Creating a graphical and mathematical model to explain the effect of each component, which will help in precise calibration.

EXTRA-CURRICULAR ACTIVITIES

Fest Organizing Committee

Aug '23 - Present

BITS Pilani, KK Birla Goa Campus

- Played a key role in organising all three fests on campus with fest budgets greater than one crore individually.
- Successfully brought multiple sponsors amounting to INR 10 lakhs (~USD 6,000) for Quark, the annual techno-management fest.

ORGANISATIONS

Nirmaan.org BITS Goa & Abhigyaan BITS Goa

Jun '23 - Present

Role: Project Lead | Cause: Education for All

- Led and facilitated daily educational activities for students in grades 1-12 within the Lamani slum area around campus.
- Coordinating and organising 15+ community events for children and families in the slum, with several events and multiple initiatives successfully completed and more planned.

Shraddha Charitable Foundation

Jan '18 - Jul '23

Role: Volunteer | Cause: Women's Empowerment

- Facilitated workshops and training sessions on topics such as financial literacy, entrepreneurship, leadership development, self-defence, and health and wellness. Actively worked to facilitate the rehabilitation of widows and older women.
- Participated in advocacy campaigns and awareness-raising activities to promote gender equality, women's rights, and issues affecting women in society. Engaging in outreach activities to connect with women in marginalised communities, providing them with information, resources, and support services to address their specific needs and challenges.