

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.
- **Characterisation Techniques:** Spectrophotometry, Sputtering.
- **Languages:** English, Hindi, Marathi, Gujarati.
- **Marketing and Sales:** Sponsorship and Operations.
- **Public Relations**

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](#).
- Used understanding of the previous lyotropic cholesteric liquid crystal (ChLC), to create a liquid crystal which can be used for creating the display. Currently working on calibrating the liquid crystal to enhance the display quality.
- Researching ways to create flexible displays by using graphene sheets as electrodes.

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 ChLC along with methods different component affect the sample.
- Formulated various liquid crystals with a precision of 1 degree Celsius, thus satisfying the aim of the experiment.
- Simultaneously, creating a mathematical model to explain the effect of each component using spectrophotometric data, which will also help in precise calibration.

EXTRA-CURRICULAR ACTIVITIES

Fest Organizing Committee

Aug '23 - Present

BITS Pilani, KK Birla Goa Campus

- Played a key role in organizing all 3 fests on campus with fest budgets greater than 1 crore individually.
- Successfully brought a co-title sponsor amounting to INR 10 lakhs (~USD 6,000) for Quark'24, the annual techno-management fest.

ORGANIZATIONS

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.
- 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 marginalized communities, providing them with information, resources, and support services to address their specific needs and challenges.