

**Mr. Joydeep Roy**

**Junior Research Fellow**

**Supervisor- Prof. Swadhin Kumar Mandal**

**Research Interest- *Small molecule activation and Catalysis using Main-Group Compounds***

**Emails- [jr24rs008@iiserkol.ac.in](mailto:jr24rs008@iiserkol.ac.in)**

***A brief overview about myself:***

I joined Prof. Mandal's lab in August 2024. I completed my BSc. in Chemistry from Jadavpur University and MSc. from IIT Hyderabad. I am currently working on CO<sub>2</sub> capture and its reductive functionalization into valuable-added products such as polymers using aNHC-based metal-free catalysts. I am devoted to gaining expertise and knowledge in synthetic chemistry and catalysis which includes handling sensitive chemicals while maintaining inert conditions.

***List of publications:***

***Awards/Recognition:***

- DST-INSPIRE fellowship.
- Qualified CSIR-UGC-NET Dec 2023 with LS Rank 35.
- Qualified GATE 2024 with AIR 408.
- IIT Hyderabad Institute Silver Medal Award for the highest CGPA in the Department of Chemistry for the graduating class 2023.
- IIT Hyderabad Academic Excellence Award.
- Qualified IIT-JAM 2021 with AIR 334.