



ADITYA NARAYAN ROUT

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ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Chemical Engineering	Indian Institute of Technology Delhi	8.716
2022	Council of Higher Secondary Education (CHSE), Odisha	Tetrahedron Higher Secondary School	94.5%
2020	Board of Secondary Education (BSE), Odisha	DKN Bidyapitha	93.67%

SCHOLASTIC ACHIEVEMENTS

- **Department Rank 3:** Ranked 3rd among all B.Tech students, consistently secured **9+ SGPA** for four semesters [2025]
- **IRD Discover & Learn Scholar:** Awarded **INR 200k/yr** by IRD IITD to build a cost-effective, high-precision PIV device [2025]
- **UG Teaching Assistant:** Selected for **TA** in CLL110 course and an MoE grant of **INR 45k** out of 120+ students [2025]
- **IICHe SCHEMCON Conference:** Represented IIT Delhi and won the **Best Oral Presentation** award nationally [2024]
- **INOX Fellowship & IITD-GCF Award:** Selected from a pool of **250+** for awards of **INR 25k & 70k** for excellence in ChE [2025]
- **Reliance UG Scholar:** Selected from a pool of **40000+** for merit scholarship of **INR 200k** through national aptitude test [2022]

INTERNSHIPS

- **Piramal Pharma Limited, PDS Ahmedabad:** *Global Emerging Leader Intern, On-site* [May'25 - July'25]
Project 1: Cloud data management roadmap to enhance efficiency in space utilization, reduce costs, prevent data duplication
- Investigated **105TB** of cloud storage, **700+** data backup reports and examined the critical factors for soaring cloud cost
- Engineered a **tiered cloud-backup** architecture for GMP data, slashing annual cloud **storage costs by 33%** with zero data loss
Project 2: Development of a chemical inventory management software to automate tasks for enhanced operational efficiency
- Diagnosed critical inefficiencies in report generation, real time storage analytics in a **40,000+ SKU inventory** managed on excel
- Developed & deployed **OneClick**, a customized desktop app automating inventory analytics, **reduced manual efforts by 99%**
Received Letter of Recommendation from the Information Technology Manager for driving enterprise level digital transformation
- **Max Planck Institute of Colloids and Interfaces, Germany:** *Research Assistant, Remote* [May'24 - July'24]
- Conceptualized defect modeling and non-ideality for **structural color simulation** in collaboration with the *University of Cambridge*
- Advanced **PyLlama (Python)** to simulate optical properties of defective structures, enabling optical analysis of realistic CNC films

PROJECTS

- **Product Strategy Lead | Oceanic Biosciences Venture Simulation** (*Prof. Vivek G. Nair*) [Jan'25 - Apr'25]
- Spearheaded **end-to-end product strategy** for a simulated marine biotech venture targeting validated \$4.7B+ global markets
- Architected a **detailed business model** and financial plan projecting **INR 250Cr+ revenue by Year 3** with 25% net margins
- Designed a **comprehensive GTM strategy** and defined key strategic partnerships to de-risk technical execution
- Orchestrated the entire **product lifecycle** from concept to launch-ready plan, integrating market and regulatory needs
- **Capstone Project, Advanced Business Analytics with Excel** (*Prof. Joseph W. Cutrone*) [Jan'24 - Mar'24]
- Optimized a **\$50B natural gas project** using Excel Solver, **increasing NPV by 30%** under capex & resource constraints
- Developed **dynamic financial models & executive dashboards**, enabling data-driven capital allocation decisions

TECHNICAL SKILLS

- **Languages:** Python, SQL, C++ | **Analytics:** OriginLab, Tableau, Power BI | **Tools and Methods:** Jira, Figma, Agile, Scrum
- **Certifications:** Google Data Analytics | Business Analytics (Johns Hopkins University) | Microsoft Azure Cloud Services

POSITIONS OF RESPONSIBILITY

- **Chemical Engineering Society, IIT Delhi** *Elected from a pool of 250+ students to lead a 3-Tier team*
General Secretary: Directing **30** student leaders to execute 15+ annual initiatives **impacting 1000+** students [Jan'25 - Present]
- Overhauled ChES structure to direct media outreach, **peer upskilling** and **R&D**, bridging the academia-industry gap
Operations Coordinator: Launched research projects allocation system and distributed **53** projects to students [May'24 - Jan'25]
- Architected a centralized e-resource hub, **ChemE-Library** from inception; adopted by **600+** students across all academic years
Events Executive: Actively contributed to **10+** institute level events, **Awarded Outstanding Contributions to ChES** [Jun'23 - May'24]
- **New Initiatives Coordinator, CAIC:** Boosted outreach, sponsorship, and engagement for **30+ national events** [Jan'24-Jan'25]
Awarded Outstanding Contributions to CAIC Outreach, IIT Delhi by the Associate Dean Outreach and New Initiatives

EXTRA CURRICULAR ACTIVITIES

- **Bagged 6+ Podiums in national prototype & B-plan comps and Sports** **Social, Public Speaking and Arts**
Winner, Prototype Comp, BITS P | **Runner up, ChE Research Expo, IITD** [2025] **UN Volunteer, PHAAE(Nigeria)** [24]
Winner, ANVESHANA, BMSIT&M | **2nd Runner-up, Da Vinci Curves, IITD** [2025] **Journalist@CoffeeWithProfs** [25]
Winner, ENVISAGE B-Plan, IIC'23 | **2nd Runner Up, Weightlifting GC IITD** [2025] **Emcee** (Sreshtha, 1000+ crowd) [25]
- **Published Odia Author:** 2 short stories in *The Nabasakala* | Readership rating of **4.7/5** on *Pratilipi* for narrative excellence



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IIT COURSE

Degree	Institute	CGPA	Dept. Rank
B.Tech in Chemical Engineering	Indian Institute of Technology Delhi	8.70	3

COURSES DONE

Calculus, Linear Algebra & Diffe. Equa., Numerical Methods In Chemical, Introduction To Economics, Microeconomics, Organization And People Management, Applied Positive Psychology, Chem. Process Tech.& Economics, Chemical Engg. Mathematics, Instrumentation And Automation

INTERSHIPS

- Global Emerging Leader - Summer Intern, Piramal Pharma Limited (2025)

POSITIONS OF RESPONSIBILITY

- Overall Coordinator, Chemical Engineering Society (ChES), CAIC (January, 2025 - January, 2026)
- Coordinator, Outreach & New Initiatives, CAIC (January, 2024 - January, 2025)
- Coordinator, Chemical Engineering Society, CAIC (January, 2024 - January, 2025)
- Weightlifting - Captain, Satpura, BHM (June, 2023 - May, 2024)
- Executive , Chemical Engineering Society, CAIC (June, 2023 - May, 2024)
- Executive, BlocSoc, CAIC (June, 2023 - May, 2024)
- Activity Head, TRYST'24, CAIC (June, 2023 - May, 2024)

EXTRA CURRICULAR ACTIVITIES

- Outstanding Contribution as Executive, ChES Awards (January, 2000 - January, 2000)
- Outstanding Contribution to Outreach 2024-25, CAIC Night Awards
- Runner Up, ChemE Research Expo: National Poster Presentation Competition
- Participant, ETH India
- Third Place, Da Vinci Curves
- Third Position, Interhostel Men's GC, Weightlifting
- Third, Da Vinci Curve
- Second Runner Up, Weightlifting, Interhostel General Championship
- Third Position, Interhostel Men's GC, Weightlifting
- Panel Member, Foreign Research Intern Ke Fundae Session
- Panel Member, OCS Intern Ke Fundae Session
- Journalist, Coffee With Proffs