Parth Shahi

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EDUCATION:

Gujarat University, School of Sciences, Department of Chemistry — Ahmedabad, India
Master of Science, Organic Chemistry — *May 2023*

- CGPA: 6.56/10, **First Class**
- Thesis**: "Molecular Docking Analysis of Biginelli Derivatives against BRAF Protein: A Study of Binding Affinities and Interactions"**
- Review paper (in review) : **"A Comparative Study on the Synthesis of 5-Fluorooxindole via Various Pathways"**
- Participated in a variety of professional seminars and extracurriculars

Gujarat University, KKSJMSC — Ahmedabad, India
Bachelor of Science, Chemistry — *May 2021*

- CGPA: 6.92/10, **First Class** (top 5% in college)
- Graduated with high honors
- Volunteered under NSS for Medical Camp, Cleanliness Campaigns, etc.

GSEB, Hebron — Ahmedabad, India
5-12, Science with Mathematics (PCM) — *May 2018*

- Played for school football team in Inter-School Football tournament

CERTIFICATIONS:

Harvard University, CS50x — Remote
Introduction to Computer Science — *Ongoing, 75%*

- The 4-months entry-level course teaches students how to think algorithmically and solve problems efficiently.
- Topics include abstraction, algorithms, data structures, encapsulation, resource management, security, software engineering, and web development.

NIELIT, CCC — Remote
Course on Computer Concepts — *March 2019*

- 80-hours course that allows the students to get basic knowledge of computers.

PROJECTS:

Computational Chemistry Dissertation: "Molecular Docking Analysis of Biginelli Derivatives against BRAF Protein: A Study of Binding Affinities and Interactions"

- Conducted a Master's dissertation analyzing 300 Biginelli derivatives against BRAF protein.
- Identified top ligands with superior binding affinities for targeted cancer therapy.
- Proficient in molecular docking (Autodock Vina) and computational chemistry techniques.

Review Paper: "A Comparative Study on the Synthesis of 5-Fluorooxindole via Various Pathways"

- Authored a review paper on the synthesis of 5-Fluorooxindole, crucial in sunitinib production.
- Explored diverse synthesis methods and highlighted compound's significance in drug synthesis.
- Concluded that efficient 5-Fluorooxindole synthesis is vital for sunitinib production.

SKILLS AND COMPETENCIES:

Core Competencies: Critical thinking, Problem solving, Active learning, Literature, Team Player, Research
Chemistry: Synthesis, GLP, Routine TLC, Column Chromatography, Data interpretation, Wet Chemistry, Literature Search, Liquid-Liquid Extraction, Rotary Evaporator, Sample Preparation, Scientific Writing
Softwares: ChemDraw, AutoDock, AutoDock Vina, MGLTools, ChimeraX, Discovery Studio, PyMOL, Zotero, Bash, Linux, SciFinder, MestReNova, Microsoft 365
Computer Languages: C, Python, SQL, HTML, CSS, Bootstrap, JavaScript
Spoken Languages: English (Fluent), Hindi (Native), Gujarati (Working Proficiency)
Interests & Activities: Chess, Football, Cycling, Swimming

***References available upon request**