Shivam Zade

Organized, focused and **meticulous** individual seeking a challenging career with a **progressive organization** that provides an opportunity to capitalize my **technical knowledge, skills and abilities.**

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📍 Jodhpur, India

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COURSEWORK

Data Structures and Algorithms

Deep Learning and Machine Learning

Computational and systems biology

Genetics and Gene manipulation

Bioenergy and Biosensors

Bioimaging

LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency

Marathi
Full Professional Proficiency

French
Limited Working Proficiency

INTERESTS

Chess/Badminton

Playing keyboard

Avid reader

Nature enthusiast

EDUCATION

B.TECH Bioscience and Bioengineering
IIT Jodhpur

2019 - 2023   *7.4(till 7th sem)*

Senior Secondary
St. Xavier's High School,Nagpur

2017 - 2019   *93.6%*

Secondary
Bal Bharati Public School,Delhi

2017   *CGPA : 10*

PROJECTS

Structure Guided Therapeutics based discovery against Staphylococcus aureus
- Found a possible lead against Staphylococcus aureus (in silico) from IMPPAT database.
- Molecular docking was done using PyRx, followed by conserved region analysis using KDeep.
- MD simulation was done to ensure the biomolecular system is stable.

Human Ear Modeling
- 3D model of ear was prepared for medical practices and research studies.
- CT scans obtained from AIIMS Jodhpur, which were later used to create a 3D model using Materialise MIMICS.
- FEM analysis was done to check how the model responds to physical phenomenon in a simulation.

Analyzing fluoroquinolones behavior in diabetic patients
- Found a fluoroquinolone which binds to glycated Human serum albumin(responsible for transport mechanism).
- In vitro tests performed to verify the antibiotic binding .
- In vitro tests performed which consisted analysis of the binding using different spectrophotometric techniques.

SKILLS

Laboratory Techniques
DNA isolation, SDS-PAGE, Restriction Digestion, PCR (including colony PCR sequencing PCR), Cloning, Transformation, Agarose Gel Electrophoresis, ELISA ,western blotting , Fluorescence Spectrometry, UV-vis spectrometry, Protein purification, etc

Technical Skills
Python,Pandas, Numpy, Sklearn C++, HTML,PyRx, PyMOL, Cytoscape, MATLAB, Ansys, MIMICS, Solidworks, Autodock Viva, BLAST, MS Office

STRENGTHS

Innovative approach towards problem solving

Team player

ESG awareness