


NAISARG PATEL

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Vapi, Gujarat - India



EDUCATION

- **Vellore Institute of Technology**  Sep 2022 - Jun 2026
Bachelor of Technology in Biotechnology (4 Year Course) Vellore, India
◦ GPA: 9.40/10
- **Smt. Sandra Shroff Gnyan Dham School** May 2022
Higher Secondary Education (All India Senior School Certificate Examination [AISSCE]) Vapi, India
◦ Grade: 95%

INTERSHIPS

- **University of Tartu**  Dec 2025 - Ongoing
Bachelors Thesis (6 Months) Tartu, Estonia
- **Micro Crispr Pvt. Ltd.**  May 2024 - Jun 2024
Summer Intern Chala, India

PROJECTS

- **Explainable Multi-Modal Deep Learning for Risk Stratification of Female Hormone-Related Cancers in UK Biobank**  Jan 2026 - Ongoing
Vellore Institute of Technology, India
- **Novel Machine Learning Approach to Multi-Omics Cancer Subtype Classification** Dec 2025 – Ongoing
University of Tartu, Estonia
- **Bioinformatics Target Prioritization Pipeline** Apr 2025 - Ongoing
Zastra Innovations and Vellore Institute of Technology, India
- **iGEM 2024 VIT-Vellore Team Member** Feb 2024 – Nov 2024
Vellore Institute of Technology, India 

PUBLICATIONS

J=JOURNAL, S=IN SUBMISSION

- [J.1] **Naisarg Patel**, Samrat Sarkar, Bala Murali V M, Ishan Kashyap, Premkumar Thiruselvam, Vino Sundararajan, Sajitha Lulu Sudhakaran. **Understanding the action of Bamocafter as a potential drug candidate against Cystic Fibrosis Transmembrane Regulator Protein: A Computational Approach**. Published in PLOS ONE at <https://doi.org/10.1371/journal.pone.0328051>
- [J.2] **Naisarg Patel**, Ankita Lawarde, Suhas Manikant Suriseti, Premkumar T, Prakash Lingasamy, Vino S, Sajitha Lulu. S, Andres Salumets, Dr Vijayachitra Modhukur. **Serum-MiR-CanPred: Deep Learning Framework for Pan-Cancer Classification and miRNA-Targeted Drug Discovery**. Published in RNA Biology at <https://doi.org/10.1080/15476286.2025.2577433>
- [J.3] **Naisarg Patel**, Rajesh Sharma, Prakash Lingasamy, Vino S, Sajitha Lulu S, Vijayachitra Modhukur. **Understanding User Perceptions of DeepSeek: Insights from Sentiment, Topic and Network Analysis Using a Reddit-Based Study**. Published in Frontiers in Artificial Intelligence at <https://doi.org/10.3389/frai.2025.1703949>
- [J.4] **Naisarg Patel**, Rajesh Sharma, Prakash Lingasamy, Vino S, Sajitha Lulu S, Vijayachitra Modhukur. **Temporal Evolution of Digital Health Communication in Rheumatoid Arthritis: A Longitudinal NLP Analysis of Reddit Discussions (2018–2024)**. Published in PLOS ONE at <https://doi.org/10.1371/journal.pone.0341006>
- [S.1] **Naisarg Patel**, Suhas Manikant Suriseti, Aman Ajay Chintala, M.Maneesha, V.Mohanasrinivasan, C.Subathra Devi. **Enhanced Serratiopeptidase Production and Optimization of process parameters Using a Sapota-Enriched Medium from a Novel White Serratia marcescens Strain NSA-8**. Manuscript under review in *Industrial Crops and Products*.
- [S.2] Masuma Khatun, **Naisarg Patel**, Marina Loid, Aspasia Destouni, Prakash Lingasamy, Sajitha Lulu S, Maire Peters, Rajesh Sharma, Andres Salumets, Vijayachitra Modhukur **Male Infertility Disclosure on Reddit: A Study of Emotional Expression, Information Exchange, and Peer Support**. Manuscript under communication in *Health Communication*.
- [S.3] Blessy Kiruba, S B Niranjana, Derrin Bright, **Naisarg Patel**, Carolyn Ann Biju, Vino Sundararajan, Sajitha Lulu S. **Comparative Analysis of HPV-Positive Cervical and Head and Neck Cancers Using WGCNA and Machine Learning Identifies Shared Biomarkers**. Manuscript under review in *Frontiers in Bioinformatics*.

LEADERSHIP EXPERIENCE

• iGEM VIT-Vellore Team Lead

Mar 2025 - Nov 2025

Vellore Institute of Technology



- Led a 15-member team for the iGEM 2025 synthetic biology competition.
- Coordinated project design, lab work, modeling, and outreach.
- Presented the results at the Grand Jamboree in Paris, France

SKILLS

- **Programming Languages:** Python, R, Bash
- **Web Technologies:** HTML, CSS
- **Data Science & Machine Learning:** TensorFlow, Scikit-learn, Pandas, Optuna
- **Cloud Technologies:** Google Colaboratory
- **Computational Skills:** Molecular Dynamics Simulations (GROMACS), Molecular Docking, Mutation Analysis (Rosetta), Sentiment Analysis (NLTK), Topic Modeling
- **Laboratory Skills:** Gel Electrophoresis, DNA/RNA Extraction, PCR, Protein Purification, Enzyme Assays
- **Other Tools & Technologies:** Jupyter Notebook, Visual Studio Code, SQLite3
- **Research Skills:** Literature Review, Data Analysis, Scientific Writing, Data Analysis, Research Presentation

HONORS AND AWARDS

• Silver Medal (iGEM 2025)

International Genetically Engineered Machine (iGEM)

Nov 2025



• BIDFEST 2025 - Third

Club SBE, Vellore Institute of Technology

Mar 2025



• Certificate of Merit (2024-25)

Vellore Institute of Technology

Apr 2025



• Special Achiever (2024-25)

Vellore Institute of Technology

Apr 2025



• Silver Medal (iGEM 2024)

International Genetically Engineered Machine (iGEM)

Nov 2024



• Certificate of Merit (2023-24)

Vellore Institute of Technology

Apr 2024



• BIDFEST 2024 - First Runner Up

Club SBE, Vellore Institute of Technology

Mar 2024



CERTIFICATIONS

- **Harvard University:** CS50's Introduction to Artificial Intelligence with Python 2024
- **NPTEL:** Forests and their Management 2024
- **NPTEL:** Google Cloud Computing Foundations 2023
- **Harvard University:** CS50's Introduction to Programming with Python 2022
- **Harvard University:** CS50x 2022

ADDITIONAL INFORMATION

Languages: English (C1), Gujarati (C2), Hindi (C1)

Interests: Reading, Video games, Cooking, Traveling

REFERENCES

1. Dr. Sajitha Lulu S

Associate Professor Sr, School of Bio Sciences and Technology

Vellore Institute of Technology, Vellore

Email: ssajithalulu@vit.ac.in

Phone: +91 99448 07641

Relationship: Professor and Project Supervisor

2. Dr. Vijayachitra Modhukur

Bioinformatics Specialist

University of Tartu, Estonia

Email: vijayachitra.modhukur@ut.ee

Phone: +372 58206815

Relationship: Project and Thesis Supervisor