Sishir Anand Indupalli

sishirindupalli@gmail.com
bt22btech11009@iith.ac.in
6303328996

Academic Details			
Year	**Degree**	**Institute**	**CGPA/Marks(%)**
2026	B.Tech Biotechnology and Bioinformatics	IIT Hyderabad	8.62
2026	B.Tech Biomedical Engineering (Minor)	IIT Hyderabad	N.A
2022	XII (Telanga State Board of Intermediate Education)	Sri Chaitanya Narsingi Hyderabad	96.7%
2020	X (ICSE)	The Future Kids School Hyderabad	91%

Scholastic Achievements

Demo point

- Growth Internship at FactAPP (for student JoSAA counselling)
- ICSE Football Nationalist
- Selected for Hokkaido University SSP 2024 ; JST Japan Visit

Positions of Responsibility

- Class Representative of Biotechnology and Bioinformatics Department
- Core Member of "GLITCH" Video Games Club at IITH
- Web Design Team and Technical Team in HySci 2024 Event
- Web Dev Manager of E-Cell IIT Hyderabad

Skills

- AI/ML/DL with Neural Networks, PostgreSQL, MySQL, MongoDB, Python libraries, R
- MERN stack, Next.js, Tailwind CSS, Typescript, Google Sites, PHP, Golang, Flask, Chakra UI
- BLAST, HMMER, ChEMBLdb, Gatk, Samtools, BWA, GWAS, Bulk RNA seq Data Analysis, DNA-seq Data Analysis with germline and somatic variant calling
- C, Java, Git , Bash

Relevant Courses

- Basic Bioinformatics, Basic Bionanotechnology, Big Data Biology & Biological Databases, Next Gen Sequencing, Biostatistics, Biomolecular Simulations, Biochemistry, Biochemical Engineering, Microbiology, Basic Biotechnological Lab, Molecular and Cellular Biology, Molecular Biophysics, Macromolecular Structural Biology, Protein Structures Functions and Diseases, Nucleic Acids and RNA Biomedicine.

Projects

- Research Projects under professor Abhishek Subramanian Sir
  - Developed a Flask-based web application for the BLAST program, enabling simultaneous processing of multiple FASTA files and custom data output formatting.
  - Conducted data analysis to determine antimicrobial resistant and susceptible genes utilizing K-mers, Markov models, VAMPr, and multiple machine learning models.
- Internship and Recruiter portal using Next.js, React,js, Tailwind CSS and Typescript.
- Random Music Generator using certain set of audio clips using python libraries such as Tkinter, pygame and os.
- Sudoku Solver with Backtracking Algorithm using Java.
- Respoinsive Login Screen using HTML,CSS,JS and Bootstrap.
- Used SolidWorks and Ansys to Simulate a Boston dynamics inspired dog robot
- Utilized Wokwi to simulate circuits for the purpose of inputting a number and subsequently displaying its binary code and also a 4-digit pin system.

Extracurricular

- Portfolio Website with Next.js, Tailwind CSS, Reat.js and Chakra UI