

Pratham Jha

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College Participation

Toastmasters International

Patiala, Punjab

Thapar University

Sept 23 - August 24

- Executive member of core committee for annual flagship event Toast-Talks 9.0.
- Led a team of 5 for tasks like Content creation and Marketing
- Developed various videos for the club's social media
- Led the creation of animated content for publicity of event
- Brought 12+ sponsors like PepsiCo, Verka and many other local brands to work with us for the event

Entrepreneur Development Cell

Patiala, Punjab

Thapar University

Sept 23 - August 24

- Marketing Executive for E-summit 24
- Fundraising for events.
- Drove a Sponsor Campaign within Thapar to promote all our sponsors
- Coordinated with Ashneer Grover and invited him to speak at the event

Projects

Genomic Search

-Using File handling principles, searched through the nucleotide sequence of a rice's genome to find the number of times each Deca nucleotide repeats itself

- <https://replit.com/join/ogillgmurq-jhapratham6>

Milk adulteration Testing Kit

-Developed effective tests using different lab chemicals and instruments to find out if the milk has been adulterated

-My Kit was rated a 78 out of 100 in effectiveness which was the 5th best score

Applications of Transfer Learning on Diagnosis of Multiple Sclerosis

-Leveraged transfer learning to develop a model for detecting Multiple Sclerosis based on RNFL (Retinal Nerve Fiber Layer) thickness from retinal images.

-Demonstrated correlation between RNFL thinning and MS progression, aiding in early-stage diagnosis.

Docking Studies on BACE-1 Protein Inhibition

- Investigated BACE-1, a key enzyme in amyloid plaque formation associated with Alzheimer's disease.

-Conducted molecular docking using AutoDock Vina to identify flavonoid compounds with potential inhibitory effects on BACE-1.

-Aimed to highlight natural compound candidates for therapeutic intervention in Alzheimer's progression.

Certificates

1. Biological Data Analysis from NPTEL.
2. Drug Design and Development from NPTEL.

Skills

Languages: Python (TensorFlow, PyTorch), R Language, C Language.

Design Tools: Canva, Illustrator, Figma, Adobe Creative Cloud, Biological Data analysis, Drug Design and Development

Skills: MS Excel, Management, Direct Marketing, Market Research, Data Cleaning and Processing.

Education

Thapar Institute of Engineering and Technology

Bachelor of Technology in Biotechnology. CGPA: 8.5

Patiala, Punjab

Aug. 2023 – currently