AYUSHI SHARMA
Biomedical Engineering graduate student

CONTACT

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📍 Chennai, TN

🔗 Ayushi Sharma

PORTFOLIO

🌐 ayushi-sharma98.github.io

SKILLS

Laboratory

Tissue culture, PCR, Gel electrophoresis, Molecular gene cloning, Western blot, Protein extraction, DNA sequencing, Gene expression

Software

Microsoft Office Suite: Word, Excel, PowerPoint; ASANA, Swissport

COURSES

BME570L Intro to Biomolecular, BME770 Bioconjugation in drug biomaterials and drug delivery, BME790 Physiology for engineers

Foundations of project management (Google), Python for everybody (UMich), MATLAB programming for engineers (Vanderbilt)

EDUCATION

DUKE UNIVERSITY   Aug 2021 - Present
Masters in Biomedical Engineering
- Special certificate in Biotechnology
- CGPA (End of semester 1) : 3.4/4

COLLEGE OF ENGINEERING, ANNA UNIVERSITY   Aug 2016 - May 2020
B.E in Biomedical Engineering
- #1 Ranked university in the country
- CGPA 8.8/10 - Top 3% of graduating class (converted to 3.74/4 GPA)

WORK EXPERIENCE

ASSISTANT PROJECT MANAGER
LEVIM BIOTECH   Mar 2021 - Aug 2021
- Established and represented communication with CROs to reach milestones in time-sensitive diabetes clinical project.
- Risk mitigation related to material procurement for large scale clinical trials.

CLINICAL INTERN
PFIZER INC.   May 2018 - July 2018
- Assisted with the commercial synthesis of medicine in an extremely fast-paced and competitive R&D department.
- Gained expertise and helped improve the model and overall processing time of medicine synthesis.

RESEARCH INTERN
Under Rachel Hinton   Jan 2018 - Apr 2018
- Coordinated on-ground research involving data collection for a flagship program to improve literacy rates in rural Tamil Nadu.

SUMMER INTERN
JPAL   May 2017 - Aug 2017
- Assisted a team in the conceptualization and implementation of a first of it's kind, state sponsored longitudinal survey of 20,000 elderly people, to make heath care and pension more accessible to the rural parts of India.

RESEARCH EXPERIENCE

CANARY CENTRE AT STANFORD FOR CANCER EARLY DETECTION, STANFORD   Nov 2019 - Jan 2020
- Focused on mRNA folding patterns to analyze potential use of therapeutic mRNA in gene therapy and as biomarkers
- Modeled images of various mRNA folding patterns, and then analyzed and complied differences between the folding patterns.
- Learnt and practiced basic and complex Biotech lab skills.

VISHWANATHA LAB, UNTHSC   May 2019 - Jun 2019
- At presidential award winner, Dr. Vishwanatha's Lab, researched and assisted with the exosome coating techniques for Bioengineered Mesenchymal Stem Cell Exsome-coated Polymeric Nanoparticles for the treatment of Triple Negative Breast Cancer.
- Worked on a study that focused on Bone Metastic Prostate Cancer using dual targeted nanoparticles loaded with drugs.