

**AKANKSHA DAS**Course :**M.Sc. (Hons.)**, Biological Science and **B.E. (Hons.)**, Electronics & Instrumentation, 2024

Email :f20191425@hyderabad.bits-pilani.ac.in

Mobile :8825945044

CGPA :7.92

**ACADEMIC DETAILS**

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	SCIENCE	Kamala Niketan Montessori School	CBSE	95.6 %	2019
CLASS X		Kamala Niketan Montessori School	CBSE	10 CGPA	2017

Subjects / Electives	Control Systems, Probability and Statistics, Differential and Integral Calculus, Digital Design, Microprocessor and Interfacing, Computer Programming, Linear Algebra, Object Oriented Programming, Operating System
Technical Proficiency	Java, C++, Python, C Programming, JavaScript, Node.js, React, REST, SQL, AWS Lambda, AWS CloudFormation, AWS S3

SUMMER INTERNSHIP / WORK EXPERIENCE

Software Development Engineer Intern, Amazon Development Centre India Pvt Ltd	Jul 2023 - Dec 2023
<ul style="list-style-type: none">Designed a low level design and implemented a client authentication system using java and integrated it into existing systemworked on other projects which included implementation, testing, and documentation of various approaches	
IoT intern, Domtech Robotics and Automation	May 2021 - Jul 2021
<ul style="list-style-type: none">Built a farmland and crop health monitoring system using image processing and neural networks.Learnt the implementation of CNN and other deep learning concepts using Keras for image processing.Developed a code for drone monitoring of the farmland using web cam.	
Field Application Scientist intern, Premas Life Sciences Pvt Ltd.	Jun 2022 - Jul 2022
<ul style="list-style-type: none">On site installation and troubleshooting of Illumina NGS instrument (MiSeq).On site exposure of the workings of Fragment Analyzer, Qsep 1 Plus, Qsep 100, Qubit.Learnt the implementation of sequencing by synthesis(SBS) technology and NGS workflow including methods of Library preparation, sequencing & data analysis.	

PROJECTS

Multi-client server application for message passing and logging - OS Project	Jan 2023 - May 2023
<ul style="list-style-type: none">Built communication and connect channel for communicationUsed message queue and shared memory for responding to client requests (arithmetic functions).Provided synchronization and made code more efficient using multi-threading methods along with IPC.	
Timing Consensus Scheduler - OOP Project	Jan 2023 - May 2023
<ul style="list-style-type: none">Worked on a Full-Stack Web Application For College Facility Scheduling and BookingBuilt both back-end and front-end using database support and used technologies- SpringBoot for back-end and HTML, CSS, JS for front-end.	
Standardize methods for In-Situ Hybridization - Biology	Jan 2022 - May 2022
<ul style="list-style-type: none">Project under Dr. Suman Kapur.Worked on increasing the specificity of In-Situ Hybridization for proper probe annealing.Used software tools such as NCBI BLAST and OligoCalc in order to calculate optimal salt concentrations for ISH.Worked in the wet lab and have conducted RNA isolation using a single step reagent, Agarose Gel Electrophoresis as well as ELISA and quantitative analysis using a Nanodrop.	

POSITION OF RESPONSIBILITY

Social media manager - Enactus, BITS Hyderabad Chapter	Aug 2021 - Jul 2022
<ul style="list-style-type: none">Part of a worldwide organization (Enactus World) that furthers entrepreneurs with a social cause.Taken part in international competitions with the project- Vikalp, working on social causes like skill-building of autistic children.	
Secretary - Synopsis, Biological Association, BITS Pilani Hyderabad Campus	Aug 2021 - Jul 2022
<ul style="list-style-type: none">Responsible for managing the overall functioning of the association especially during college fests, graduation ceremonies.Collaborating with other associations for conducting talks and seminars and hosting events during Orbe Novo (college fest)	
Core Nucleus member - Academic Undergraduate Studies Division, BITS Pilani, Hyderabad Campus	Aug 2021 - Jul 2022
<ul style="list-style-type: none">Responsible for mediating and coordinating transparent communication between the student body and the academic division.Responsible for processing academic-related documentation for the college administration	

COMPETITIONS

Revolutionary Realm	May, 2021
Enactus World Cup	Aug, 2020

- Presented our project Vikalp which was based on uplifting Autistic children through exposure into entrepreneurship suited to artistic skills they possessed.