purvi katheria

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| Phone: +91 90811 08755  [purvikatheria@gmail.com](mailto:purvikatheria@gmail.com)  44, Radhika Park, Ekta Nagar Gamdi ,Anand Gujarat-388001 |

# Education

**MASTER’S OF SCIENCE (2021-2023)**

Sardar Patel university, Biochemistry (CGPA: 6.10)

4th SEMESTER: 6.35 GPA

3rd  SEMESTER:5.52 GPA

2nd SEMESTER: 6.04 GPA

1st SEMESTER :6.48 GPA

**RELEVANT COURSES OF BIOCHEMISTRY-**

Biochemistry lab Techniques

Bio-instrumentation

Cell bio and genetics and molecular biology

Clinical biochemistry

Physiology (plant and human)

Plant biochemistry and Animal biochemistry

Genetic engineering

Nutritional and clinical biochemistry

**BACHELOR’S OF SCIENCE (2018-2021)**

Sardar Patel university, Biochemistry

CGPA: 6.47/10

**RELEVANT COURSES OF BIOCHEMISTRY-**

Analytical biochemistry

Enzymology

Cellular metabolism

Immunology

General and applied microbiology

Biochemistry lab techniques

# Experience

**Arthro3d (May2023 – ongoing)**

**Ahmedabad**

Role : **Biomedical Engineer**

Done a work which focus on advances in technology to develop new devices and equipment for improving human health.

3D modeling of bone and bone joints for pre-planning of surgery and implant selection.

Testing and maintaining products, equipment and devices that will address medical problems cost efficiently. ex. Hololens-2.

# relevant skills

**Biochemistry**

Analyzed samples using UV-VIS spectrophotometer.

Isolated and purified Plant and Human as well as Bacterial genomic and plasmid -DNA.

Separated mixture of DNA, RNA or proteins according to molecular size.

**Practical such as** –

Extraction and estimation of IAA by colorimetric method.

Aqueous two-phase extraction.

Ethanol production using Agro industrial waste

Vitamin C and citric acid extraction etc.

**Biomedical IT**

Ortho related IT work and knowledge.

Manual segmentation

3D model of Knee , Hip , Shoulder

Hololens-2 handling and working on it

Landmark selection of Knee , Hip , Shoulder.

3D slicer.

MicroDicom software.

Biomedical software testing , troubleshooting.

Hololens-2 device with X-box controller.

# Internship

Worked at pathology laboratory for 2 months, learned blood collection, performed several tests like blood group and urine test and watched autopsy procedure.

# Extracurricular Activities

Attended webinar on “MONKEYPOX” Conducted by WHO -2022.

Attended workshop on pharmaceutical position and work by university.

Attended E-workshop of Dissolution Apparatus by college.

I Had Been a part of National Cadet Corps (having A, B, C Certificate).

Visited The Medical and Aromatic Plant research station, Anand agriculture university

Industrial visit – SuAyu pharmaceutical company at Surat, Gujarat.

Got ranked in Annual sports day at shot put, disc throw and 100-meter Run.

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# Achievements and certificates

Pursuing an online certificate course on “Basic course in Biomedical Research” at NPTEL, SWAYAM.

Participated enthusiastically and passed several rounds of E-quiz organized by Sardar Patel university

Participated in yoga day on 21st June 2022.

Participated in National level quiz competition on “FOOD FOR THOUGHT” Conducted by B.N.Bandodkar College of science, Thane.

Participated in poster competition on “Plant Microbiome” Conducted by B.N.Bandodkar College of science, Thane.

# Personal Details

Nationality: Indian

Date of birth: 01/06/2001

Marital status: Unmarried

# LANGUAGES

HINDI

GUJARATI

ENGLISH

# Expertise

TIME MANAGEMENT

TEAM WORK

VERBAL AND WRITTEN COMMUNICATION

LEADERSHIP

PURBLIC SPEAKING

MANUAL SEGMENTATION

3D MODELING OF BONES OF PATIENTS

LANDMARK SELECTION OF KNEE , HIP , SHOULDER.

HANDLING OF BIOMEDICAL EQUIPMENT.

KNOWLEDGE OF BODY BONES.

# declaration

I hereby declare that all the information furnished above is true to the best of my knowledge. Any certificate and copies supporting documents will be provided, if required.

**REGARDS**

**PURVI S. KATHERIA**