



## Karan Kushwaha

**Nationality:** Indian

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**Date of birth:** 04/03/1997

**Gender:** Male

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## WORK EXPERIENCE

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### About me

I am a dedicated person with lot of knowledge in the field of chemistry and very much interested in the field of research and teaching. I am quite friendly and helpful, specially for students. Skilled in performing experiments, data calculations, sample preparation, spectra interpretation and structure determination by spectroscopic methods. I am always creative and dedicated in learning new things.

## EDUCATION AND TRAINING

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### Masters in chemistry (Msc)

**IIT Kharagpur** [ 2019 – 2021 ]

**Address:** Kharagpur , 721302 West Bengal (India)

### Project

**IIT Kharagpur** [ 2020 – 2021 ]

**Address:** West Bengal

I have done my project from IIT Kharagpur on the topic DNA and gene delivery. I have studied various types of non-viral vectors for gene delivery, methods of modification to increase transfection efficiency, instrumental techniques like SEM ,TEM , dynamic light scattering for size determination of DNA complexes. AF technique tunneling method for surface studies of DNA complexes. Vitro studies of cell viability and cell toxicity. I have completed a review article on the topic DNA and gene delivery via non-viral vectors.

### Bachelor of science (Bsc)

**Kolhan University** [ 2015 – 2018 ]

**Address:** Jamshedpur

**Field(s) of study:** Chemistry

**Final grade :** 73

**Type of credits:** Percentage

### Higher secondary (12th)

**Kolhan University** [ 2013 – 2015 ]

**Address:** Jamshedpur

**Field(s) of study:** Science

**Final grade :** 64.2

**Type of credits:** Percentage

**10th**

**JAC board** [ 2011 – 2012 ]

Address: Jamshedpur

Final grade : 74.6

Type of credits: Percentage

## **LANGUAGE SKILLS**

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Mother tongue(s): **Hindi**

Other language(s):

**Hindi**

**English**

**LISTENING C2 READING C2 WRITING A2**

**LISTENING C2 READING C2 WRITING A2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2 SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1**

## **DIGITAL SKILLS**

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Microsoft Office, Microsoft Word, Microsoft Excel, Outlook, Facebook, Google

## **LABORATORY EXPERIENCE**

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### **Lab experience**

Purification and separation techniques in organic and inorganic chemistry.

NMR, IR- spectroscopy, mass spectrometry, Fluorescence spectroscopy, EPR, DNA extraction Chlorophyll separation and characterization, Coloum chromatography, recrystallization techniques, pH meter, viscometer, Enzyme kinetic studies

## **HONOURS AND AWARDS**

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### **Honours and awards**

**IIT JAM 2019**

**AIR - 330**

**CSIR - UGC - NET 2022**

**AIR - 107**

**GATE qualified 2022**

**Bsc 2018**

**1st division in chemistry**