

# CURRICULUM VITAE of Kshitij Kumar Tripathi

## Address for Correspondence:

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## CAREER OBJECTIVE

1. To pursue a career in my domain and to make the best use of the knowledge that, I have gained.
2. To do research work in my domain if, I get an opportunity to do so.

## ACADEMIC BACKGROUND

Year(s)	Qualification – Degree / Diploma / Certificate	Board/University	College/Institute/ University	Percentage/ CGPA
2012	High School	CBSE Board	Delhi Public School, Kalyanpur, Kanpur	72.2%
2014	Intermediate	CBSE Board	Delhi Public School, Kalyanpur, Kanpur	73%
2015-2019	Graduation (Bachelor of Technology(Geo-Informatics))	University of Petroleum and Energy Studies	University of Petroleum and Energy Studies, Dehradun	5.45 out of 10.00

## PROJECTS WORK EXPERIENCE

**Company:** Citiyano De Solutions Pvt. Ltd. (about 10 months)

**Designation:** GIS Technician/Analyst in Citiyano De Solutions Pvt. Ltd.

### Description:

- Involve extensively in all phases of planning including Demographic Analysis, Existing Condition Reports, Alternatives Analysis, Preferred Plan, Build-out Scenarios and Environmental Impact Reports.
- Efficiently handle all the GIS related work during the project from researching source, collecting data, analyzing existing conditions and development impacts and drafting maps.
- Create, gather, project, organize, manipulate, integrate and maintain geospatial datasets, both spatial vector and raster data for all planning projects including Development Area, Planning Area and Municipal Corporation Area of Proposed Master Plan.

- Perform geospatial analysis, spatial analysis, network analysis and geo-referencing & digitization of Cadastral Maps of Villages.
- Provide GIS-related technical support and training to junior staffs and co-workers.
- Collect, organize, update and maintain wide GIS dataset and entered GIS data into GIS database and provide documentation on the source and update metadata, create and manage geodatabase.
- Work to and forth between ArcGIS and AutoCAD.
- Involve in City Staff Meetings and Planning Commission Meetings.

## PROJECTS

### MAJOR-2

**Project Title:** THE OPTIMIZATION OF ROAD NETWORK TO SOLVE TRANSPORTATION ISSUES OF SCHOOL

**Mentor:** Dr. Pankaj Kumar Srivastava

**Description:** The road network of any area is very important to be studied so that the transportation issues could be handled in a sustainable way. Any transportation related issues are optimized in a way which is beneficial for the people. In this project, ESRI's ArcGIS Network Analyst, and some other features of ArcGIS are used. In our project, we have school and some student's residence addresses which were geocoded in order to locate them in the network dataset that we built. We calculated the nearest route for every student and also created options for every student to choose which type of cab and payment to be done for availing bus services. We have also created a tool to extract attachments from our data.

**Technologies:** Arc GIS Desktop 10.4.1, MS-Office, Arc GIS Pro.

### MAJOR-1

**Project Title:** Evaluation of TOPSIS Algorithm for Spatial Multicriteria Site Suitability Analysis

**Mentor:** Dr. S.K. Saha, Professor, UPES

**Description:** Solid waste management is a burning problem all over the world. Solid waste is unwanted materials generated from combined residential, industrial and commercial activities in a given area which leads to adverse impacts on human health and the environment. Solid waste is a global environmental problem in today's world both in less developing and developed countries. Increasing population, rapid economic growth and the rise in community living standards accelerate solid waste generation in the world. Moreover, the lack of the basic information regarding generation, collection, transportation and disposal of solid waste was noted.

**Technologies:** Arc GIS Desktop 10.3.1, MS-Office, Arc GIS Pro.

## **MINOR -II**

**Project Title:** Open Source Software for Annotating and Developing Pathway Resources of Bangalore City

**Mentor:** Dr. V.L. Narsimham, Assistant Professor, UPES

**Description:** Rapid emergency response to the scene of a traffic accident and transportation of the injured to a medical facility is critical for saving lives. Traffic congestion is a major problem in urban areas. Traffic congestion can disrupt emergency response, but dynamic network routing can offer solutions. This project is about offering dynamic network routing for easy transportation.

**Technologies:** Arc GIS Desktop, MS-Office.

## **MINOR-I**

**Project Title:** Application of Remote Sensing and GIS in Agriculture and Natural Resource Management

**Mentor:** Dr. S.K. Saha, Professor, UPES

**Description:** Remote sensing and GIS are very important tools having wide range of applications to tackle agriculture related issues. These technologies have manifold applications in agriculture including crop discrimination, crop growth monitoring, crop inventory, soil moisture estimation, weather forecast, crop acreage estimation and yield prediction. This project is about how effectively we can use these tools over agricultural field.

**Technologies:** Arc GIS Desktop, MS-Office.

## **INTERNSHIPS**

- **INSTITUTION:** Indian Institute of Remote Sensing (IIRS), Dehradun.
- **TOPIC:** “Land Transformation Analysis using Spectral Vegetation Indices of Kanpur City, Uttar Pradesh in ArcGIS.”
- **MENTOR:** Dr. Ashutosh Bhardwaj.
- **DURATION:** 21/05/2018 to 31/08/2018
- **DISCRIPTION:** The study is entirely based on secondary data and satellite imageries only. The interpretation is limited to visual interpretation using guide map / topo sheet / master plan and the study is limited to analysis of different types of hyper spectral indices like NDVI (Normalized Difference Vegetation Index), NDWI (Normalized Difference Water Index), SAVI (Soil Adjusted Vegetation Index), NDMI (Normalized Difference Moisture Index), NBR (Normalized Burn Ratio), by using Landsat 7 and Landsat 8 images.

## ACADEMICS/EXTRA CURRICULAR ACTIVITIES

- Training in GIS- Application Development using Arc Objects Course from GEOSYS Enterprise Limited, Hyderabad.
- Participated in National Symposium on, "Transforming Indian Agriculture towards Food and Nutritional Security" held during 20-21 February 2016 at ICAR-IGFRI, Jhansi (Uttar Pradesh).
- Presented and Published a Poster Paper on "Role of Remote Sensing in Agriculture" during National Symposium on, "Transforming Indian Agriculture towards Food and Nutritional Security" held during 20-21 February 2016 at ICAR-IGFRI, Jhansi (Uttar Pradesh), pp.54.
- Participated in the CBSE Cluster III-East Zone Hockey Championship.
- Member of Winning Team in Major Dhyan Chand Memorial District Hockey Tournament.
- Core committee member at UPES AAPG Student Chapter.
- Participated in the "6th SOF-International Mathematics Olympiad" held in December 2012 and February 2013.

## COMPUTER SKILLS

**Software's** : ArcMap 10.4.1, ArcMap Pro, Auto CAD 2020, Adobe Photoshop, M.S.-Office, Microsoft Visual Studio, .NET (Framework), ERDAS IMAGINE 2014.

**Virtualization Tools** : VM Ware Player

**Languages Known** : C#

**Languages familiar with:** Java, HTML

**Operating Systems** : Windows XP/7/8/8.1/10, Android, IOS

## PERSONAL DETAILS

Date of Birth : 01-11-1996  
Father's Name : Mr. Awadhesh Kumar Tripathi  
Mother's Name : Mrs. Sapna Tripathi  
Category : General  
Gender : Male  
Nationality : Indian  
Home Town : Kanpur City  
Permanent Address : G-579, Kailash Vihar, Awas Vikas No. 1, Panki Road, Kalyanpur,  
Kanpur Nagar - 208017  
Phone No. : 8009140504, 7310150904  
Languages Known : English, Hindi, French  
Mobility : India

I declare that the details above are correct and true to the best of my knowledge.

Kshitij Kumar Tripathi

B.Tech. in Geo-Informatics

UPES, Dehradun, India

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