

## **ABHINAV CHANDEL**

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### **ACADEMIC QUALIFICATIONS**

- **Completed Master of Science (Geoinformatics)**, Teri SAS, Delhi, India in June 2018 with 7 CGPA
- **Completed Bachelor of Science (Physical Sciences)**, Ramjas College, Delhi University, India, in June 2016 with 1<sup>st</sup> Division

### **PROFESSIONAL SUMMARY**

**Research Fellow, GMDA (Gurgaon Metropolitan Development Authority),  
January 2019– present**

Responsibilities:

- Worked and collaborated with a variety of people including administrators, scientists, engineers, managers, and students
- Gained hands-on experience on how to help in administrative decision making using environment related sustainable inputs.
- Urban green, hydrology and air quality studies using satellite and ground based data are the areas of research.
- Maintaining GIS database of assets and analysis of them using remote sensing data.

**Spatial Analyst, Ashoka University, October 2018- December 2019**

Responsibilities:

- Research Topics- ‘Crop Residue Burning’ and ‘ Urban Pollution and Its Discontents’
- To look for trend in crop residue burning due to change in policies and acceptance of newly coming technologies to help in farming.
- To find factors affecting pollution in Delhi NCR due to various factors such as crop burning in adjacent states, vehicles, industries, landfill etc.
- Big data and real time climatic data handling.

### **INTERNSHIPS**

**Indian Institute of Remote Sensing (IIRS- Dehradun, India), January 2018 – June 2018  
Advisor – Dr Shefali Agrawal (Scientist G)**

- Research Topic-‘ Evaluation of bathymetry derivation techniques and comparative analysis at different spatial resolutions’
- Underwater image analysis and Image Enhancement techniques were done using MATLAB
- During this project all techniques of bathymetry estimation were done. Also, image visualization problems like, sun-glint and impacts on light travelling through different mediums were corrected using band properties.

### **Teri SAS (Delhi, India) August 2017 – November 2017**

#### **Advisor - Dr Vinay Sinha**

- Research Topic-‘ Time series analysis of glacier health over Sikkim Himalayas’.
- Computation of large amount of time series data from landsat is done using Google earth engine.
- Using band properties glaciers were delineated and trend of increase or decrease in area both seasonally and annually were analyzed considering climatic conditions.

### **Teri SAS (Delhi, India) May 2017 –July2017**

#### **Advisor - Dr Nithiyanandam Yogeshwaran**

- Research Topic - ‘ Ship detection through object-based image analysis using optical remote sensing images’
- Object based detection using shape, size and chemical properties of material used for making ship is done.

### **PAPER PRESENTATIONS**

Presented a poster on the topic ‘A pilot study on prediction of heat wave events over the coastal area of India using sea surface temperature’ at 37<sup>th</sup> Asian Conference of Remote sensing organized at The Leela Hotel, Delhi in October 2017.

### **COMPUTER SKILLS**

- Competent user of various remote sensing and GIS softwares, both open and paid like ArcGIS, QGIS, Grads, Erdas, ENVI along with additional experience in SPSS, R programming and Google Earth Engine.
- **Possess working Knowledge of R, MATLAB, Python, Posgresql, Postgis and MySQL**

### **TRAINING PROGRAMS**

- Volunteered at the International Conference on Urban Geoinformatics organized by TERI School of Advanced Studies in 2017
- Attended webinar by GIS Cloud on “Visualization and Classification of Data”
- Participated in a workshop on “Google Earth Engine” in April,2018 at Indian Institute of Remote Sensing, ISRO Dehradun
- Completed a short term online program by IIRS, ISRO on – “Application of UAV in remote sensing”.

**Total Experience: 2 years**

**Relevant Experience: 2 years**

**Current CTC: 37500 per month**

**Expected CTC: 60000 per month**

**Notice period: 1 month**