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Dr. Priyanka Rastogi  
Visiting Faculty  
Department of CSE,  
The Northcap University, Gurgaon  
Haryana, INDIA

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## CAREER VISION

I aim to be a teaching professional seeking keen interest in the emerging technologies that would give me a scope to enhance my knowledge and skills. I purpose to leverage my experiences and knowledge acquired during my research and career in IT which I hope to share with my students to the best of my abilities for holistic development of students thus fostering an environment of symbiotic learning and growth.

## PROFESSIONAL EXPERIENCE

(84 Months)

### The NorthCap University, Gurgaon

#### Visiting Faculty

(8th March 2021 to Present)

Priyanka is currently working as a visiting faculty in the CSE & IT department wherein she has been teaching upcoming and in-demand courses like Big Data Analytics and Data Engineering to the third year B.Tech students. Apart from that she had taught fundamental programming courses like Java (OOPs programming) to the first year B.Tech students.

**Key Learnings: Big Data Platforms, Classroom management skills, Acquaintance with online teaching and virtual class management skills**

### The NorthCap University, Gurgaon

#### Assistant Professor

(12th July 2017 to 20th February 2019)

Priyanka was working as an Assistant Professor in the CSE & IT department wherein she had taught latest industry relevant courses (Hadoop, Big Data Analytics, Artificial Intelligence), programming courses (Java, Advance Java) and domain specific courses (Discrete Structure) to B.Tech student at various levels. Apart from that she was associated with various administration level activities within department.

**Key Learnings: Classroom management skills, Dept level administration tasks**

### The NorthCap University, Gurgaon

#### Visiting Faculty

(29rd July 2016 to 31st May 2017)

Priyanka started her career in academics as a visiting faculty in the CSE & IT department wherein she had taught programming courses (Java, Advance Java) as well as comparatively new and challenging subjects in the areas of Data management and analysis (Exploratory data Analysis using R, Big data Analytics) to final year student and 3rd Year Students.

**Key Learnings: Classroom management skills, debugging skills.**

### Infosys Technologies Ltd., Chandigarh

#### Systems Engineer

(23rd Jun 2008 to 26 Apr 2011)

Priyanka was trained Siebel Technical Consultant (A CRM Solution package) in Oracle Practice of Enterprise Solution Division of Infosys. During her professional tenure she worked in a Siebel support and enhancement project for Finland based Minerals and Metals processing company, OUTOTEC. She was part of enhancement team on Siebel 8.1 developing custom components and performed data conversions using TSQL and Siebel Tools. Prior to this she also worked on Siebel 8.1 support project for KRAFT FOODS.

## Achievements

- Led Enhancement and Conversion Track of OUTOTEC support project.
  - Handled Client directly from offshore via conference calls without any internal senior team member's support.
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- Successfully completed rigorous Infosys Training in Mysore (was amongst top 5 percentile of trainees' batch)

**Key Learnings: Client Interfacing Skills, SQL, Siebel 8.1 CRM module.**

## EDUCATIONAL BACKGROUND

**PhD in Medical Image Analysis (2022)**, The Northcap University, Gurgaon

The topic of the thesis is "Medical Image Analysis for Cancer Diagnosis using Deep Learning".

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**GATE-2014 Qualified with 97.4 percentile.**

**M.Tech in Software Engineering**, The Northcap University (Formerly ITM University), Gurgaon  
(2014 - 2016)

Secured CGPA of 9.63 out of 10 (**Gold Medallist**, Figured in **Dean's list** for top students for all semesters)

## M.TECH PROJECT

(Feb '15 -April '16)

Undertaken Big data analytics project which involved recommending areas for cultivation of a specific crop by analysing spatiotemporal data to find the climate pattern using clustering mining techniques. The project carried out on Hadoop Platform using map reduce programming in Java. Awk scripting was used to pre-process data in intermediate steps. Apache Mahout was also employed for data mining.

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**B.Tech In Bioinformatics**, Jaypee University of Information Technology, Solan

(2004 - 2008)

Secured CGPA of 7.4 out of 10 (equivalent to 78.47%).

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**Intermediate (ISC Board)**, City Montessori Inter College, Lucknow

(2003)

Secured 83.6% In XII Standard

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**High School (ICSE Board)**, The Modern School, Lucknow

(2001)

Secured 79.8% In X Standard

## CONFERENCE PAPERS/JOURNALS PUBLICATIONS

### ▪ Journal Paper:

1. Priyanka Rastogi, Kavita Khanna, Vijendra Singh, "Gland segmentation in colorectal cancer histopathological images using U-net inspired convolutional network", Neural Computing & Applications, 2021 (Springer), DOI: <https://doi.org/10.1007/s00521-021-06687-z> . **Indexed in SCIE (IF = 5.6), Scopus**
2. Priyanka Rastogi, Kavita Khanna, Vijendra Singh, "LeuFeatx: Deep Learning-based Feature Extractor for the Diagnosis of Acute Leukemia from Microscopic Images of Peripheral Blood Smear", Computers in Biology and Medicine, 2022 (Elsevier), Volume 142, DOI: <https://doi.org/10.1016/j.compbiomed.2022.105236> . **Indexed in SCI (IF = 4.6), PubMed, Scopus**
3. Priyanka Rastogi and Dr. Vijendra Singh, "Systematic Evaluation of Social Recommendation Systems: Challenges and Future" International Journal of Advanced Computer Science and Applications (ijacsa), 7(4), 2016. (**Indexed in ESCI, Scopus**)
4. Priyanka Rastogi, Kavita Khanna, Vijendra Singh, "Binary classification of single-cell cervical pap smear images using EfficientNet". (Under Review in SCI Journal)

### ▪ Conference Paper:

1. Priyanka Rastogi, Kavita Khanna, Vijendra Singh, "Machine Learning approaches for Image-based screening of Cervical cancer", Presented in Springer 3rd International Conference on Data, Engineering and Applications 2021 (IDEA-2k21) at Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (Published as a book
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chapter in Springer's LNEE series) **(Scopus)**

2. Priyanka Rastogi, Vijendra Singh, and Monika Yadav, "Deep learning and big data technologies in medical image analysis," in PDGC 2018 - 2018 5th International Conference on Parallel, Distributed and Grid Computing, 2018, pp. 60–63, doi: 10.1109/PDGC.2018.8745750. **(Scopus)**
3. Priyanka Rastogi, Vijendra Singh, "RAiSE : Hybrid Recommender Engine for Agricultural Domain" Proceedings of the 11th INDIACom; IEEE Conference ID: 40353; INDIACom-2017. **(Scopus)**
4. Priyanka Rastogi, Aman Jatain, "Mapping of a Software Maintenance Project to CMMI Model: An Industrial Perspective" Proceedings of the 9th INDIACom; IEEE Conference ID: 35071; INDIACom-2015. **(Scopus)**

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## **AWARDS/ACHIEVEMENTS**

- Gold Medallist in M.Tech.
- Featured in Dean's list for all semesters of M.Tech.
- Felicitated with scholarship for securing First Rank for all semesters during M.Tech.
- Received Monthly Teaching Assistantship during M.Tech at NCU.

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## **TECHNICAL SKILLS**

- **Big Data Platforms:** Hadoop-2.7.x, Hadoop 3, Cloudera Distribution
- **Big Data Tools :** Apache Hive, Apache Pig, Apache Spark
- **Programming languages:** C, C++, C#.Net, JAVA, Python, R
- **Operating System:** Windows, Ubuntu 15.04
- **Database:** MS Access, Oracle 9i, SQL Server
- **IDE – Microsoft Visual Basic, Eclipse Mars**
- **Application Software:** MS-office, MS-Project, MS-Visio
- **Deep Learning Libraries:** Keras (Tensorflow), Pytorch

### **Subject Taught –**

- Java (multiple times)
- Advance Java (multiple times)
- Hadoop/Big Data Analytics (multiple times)
- Data Engineering (multiple times)
- Discrete Structures
- Exploratory Data Analysis using R
- Artificial Intelligence

**Field of interest – Data Mining, Big data, Image Analysis, Deep Learning, Machine Learning.**

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## **REFERENCES**

- Dr. Kavita Khanna, Campus Director, DSEU, Dwarka Campus, Delhi
- Dr. Vijendra Singh, Professor, UPES, Dehradun

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## **PERSONAL INFORMATION**

- DOB: 09- Nov-1984
  - Nationality: Indian
  - Marital Status: Married
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