

**Saakshi Kapoor**

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**Professional Summary**

Data Scientist with a strong foundation in machine learning, deep learning, and AI research. Experienced in developing image detection models, recommender systems, and satellite imagery analysis. Skilled in Python, SQL, and data-driven problem solving with a demonstrated ability to translate research into practical, scalable solutions. Adept at communicating insights and working cross-functionally in academic and applied environments.

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**Core Competencies**

- Machine Learning & Deep Learning
  - Data Analysis & Visualization
  - Recommender Systems
  - Object Detection & Computer Vision
  - Python, SQL, C++, Java
  - Pandas, NumPy, Matplotlib, TensorFlow, OpenCV
  - Model Training & Evaluation
  - Research & Technical Writing
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**Education****Ph.D. in Computer Science & Engineering (Pursuing)**

UIET, Panjab University, Chandigarh | Dec 2020 – Present

**M.E. in Computer Science & Engineering**

UIET, Panjab University, Chandigarh | 2015 – 2018 | CGPA: 7.88

**B.E. in Computer Science & Engineering**

Chitkara University, Baddi | 2010 – 2014 | CGPA: 7.1

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**Selected Projects****Deep Learning-Based Whale Detection from Satellite Imagery**

*Python, OpenCV, CNN*

- Built deep learning models to detect marine and land mammals from satellite images
- Published in *Sustainable Computing: Informatics and Systems*

**Face Mask Detection Model Comparison**

- Evaluated and compared object detection models for face mask detection (YOLO, SSD, etc.)

- Presented at ICICC 2022

### **Obfuscated Attack Detection in Recommender Systems**

*Python, Data Mining, Collaborative Filtering*

- Designed algorithms to detect malicious patterns in user ratings
  - Published in *Journal of Computing and Information Technology*
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## **Professional Experience**

### **Assistant Professor**

*Chandigarh University, Mohali*

Nov 2018 – Nov 2020

- Taught core Computer Science courses with a focus on AI and data science applications
- Mentored student projects on Python and Android development

### **Assistant Professor**

*ITFT College, Chandigarh*

Aug 2017 – Oct 2018

- Delivered coursework in software development and data structures
  - Led departmental seminars on data analytics and ML trends
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## **Technical Skills**

**Languages:** Python, C++, Java, PHP

**Data Tools:** Pandas, NumPy, Matplotlib, SQL Server, SQLite

**ML & DL Frameworks:** TensorFlow, Keras, OpenCV

**Dev Tools:** Android Studio, Spyder, Jupyter, Eclipse

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## **Certifications**

- Python with Data Science – NPTEL
  - Joy of Computing using Python – NPTEL
  - Foundations: Data, Data Everywhere – Google Data Analytics (Coursera)
  - Ask Questions to Make Data-Driven Decisions – Google Data Analytics (Coursera)
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## **Research Publications**

- Kapoor, Saakshi, Mukesh Kumar, and Manisha Kaushal. "Deep learning based whale detection from satellite imagery." *Sustainable Computing: Informatics and Systems* 38 (2023): 100858.
- Kapoor, Saakshi, Mukesh Kumar, and Manisha Kaushal. "Comparative Analysis of Object Detection Models for the Detection of Multiple Face Masks." *International Conference on*

Innovative Computing and Communications: Proceedings of ICICC 2022, Volume 3. Singapore: Springer Nature Singapore, 2022.

- Kapoor, Saakshi, et al. "Detection of Tiny Objects for Maritime Search and Rescue Operations." International Joint Conference on Advances in Computational Intelligence. Singapore: Springer Nature Singapore, 2022.
- Kapoor, S., Gupta, V., & Kumar, R. (2017). A Review of Attacks and its Detection Attributes on Collaborative Recommender Systems. International Journal of Advanced Research in Computer Science, 8(7), 1188-1193.
- Kapoor, S., Gupta, V., & Kumar, R. (2018). An Obfuscated Attack Detection Approach for Collaborative Recommender Systems. Journal of Computing and Information Technology, 26(1), 45-56.