

# Sandeep Kumar Patel

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## Work Experience

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- **Senior Research Scholar** Aug 2020 – Present  
**Indian Institute of Technology, Patna, India**
  - Researcher in Computer Vision and Time Series
  - Detected Anomaly in time series data.
  - Detected Anomaly in Videos.
  - Teaching Assistant for the Foundations of Deep Learning , Machine Learning, Compiler Design and Data structure.
- **Assistant Professor, Netaji Subash Institute of Technology** Oct 2023 – Present  
**Bihta Patna, India**
  - Teaching
    - Compiler Design, Formal Language and Automata Theory,
    - Design and Analysis of Algorithms , Data Structures
    - Cloud Computing, Big Data Analytics
  - Administrative Responsibilities
    - Test Coordinator Aug 2023 – Dec 2023
    - Project Coordinator (B.Tech 4th Year) Jan 2025 – July 2025
- **Project Fellow, IIT Patna Research and Development Unit** Aug 2020 – March 2022  
**Project Sponsored by the Ministry of Home Affairs, Government of India**
  - Designed CLI and GUI based obscene context detection, which **detects obscenity in the video**
  - Model also **detects presence of childrens in the video**
  - Model extracts **important frames** to be processed.
  - Model localizes the **six- locations** as obscene.
  - The model is **deployed on web server and linux server**. It requires less than **a minutes to process a large data..**

## Internship

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- **Data Scientist Intern** March 2020 – June 2020  
**Indiavidual Learning Pvt. Ltd (Embibe), Bangalore, India**
  - The project estimates the probability that the student has learned each of rules.
  - There are four parameters to evaluate the performance of users using **p-int, p-learn, p-slip, and p-guess**.

## Education

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- **Indian Institute of Technology Patna (IITP), India** July 2020 - Present  
Doctor of Philosophy, Department of Computer Science and Engineering  
Thesis Title:
- **National Institute of Technology Jalandhar (NITJ), India** July 2018 - June 2020  
M.Tech. in Computer Science and Engineering CGPA: 8.35/10  
Thesis Title: Task-Scheduling using Hybrid Meta-heuristics Algorithms in Cloud

## Publications

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### Journals:

1. **SK Patel**, A Singh, *Task scheduling in cloud computing using hybrid meta-heuristic: A review*, Proceedings of the International Conference on Paradigms of Communication, Computing and Data Sciences: PCCDS 2021, [https://link.springer.com/chapter/10.1007/978-981-15-7533-4\\_35](https://link.springer.com/chapter/10.1007/978-981-15-7533-4_35).

### Conferences:

1. **SK Patel**, A Singh, *Task scheduling in cloud computing using hybrid meta-heuristic: A review*, Proceedings of the International Conference on Paradigms of Communication, Computing and Data Sciences: PCCDS 2021, [https://link.springer.com/chapter/10.1007/978-981-15-7533-4\\_35](https://link.springer.com/chapter/10.1007/978-981-15-7533-4_35).

## Technical Skills

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- **Skills:** Python, C, C++, SQL
- **Frameworks:** TensorFlow, Keras, Pytorch, Tableau, Power BI
- **Libraries:** Numpy, Pandas, cv2, Dlib
- **Databases :** MySQL
- **Dev Tools:** Visual Studio Code, Git, Docker

## Recognition and Achievement

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- **Presented** research paper in PCCDS -2021 "*Proceedings of the International Conference on Paradigms of Communication, Computing and Data Sciences*", organized by National Institute of Technology, Kurukh, India.

## References

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Name	Position	Affiliation	Email
Dr. Somanath Tripathy	Professor	Indian Institute of Technology Patna	somanath.tripathy@gmail.com
Dr. Jimson Mathew	Professor	Indian Institute of Technology Patna	jimson@iitp.ac.in

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