1. Personal Information

Name: Mrs. Rachana S. Potpelwar
Position: Assistant Professor
Department: Information Technology Department
Institution: Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded
Contact Information:

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2. Educational Background

- **PhD (Computer Science and Engineering),** Pursuing (Admission on 21 July2021)

- **Master of Engineering (Computer Science & Engineering),** SRTMU, Nanded, August 2014

- **Bachelor of Engineering (Information Technology),** SRTMU, Nanded, June 2006

3. Research Interests

- **Areas of Expertise:** Machine Learning, Deep Learning, Data Mining, Information Security

- **Ongoing Projects:** Transformer-Based Malicious URL Detection, Sparsemax Integration in TabNet

- **Interdisciplinary Work:** Cybersecurity and Artificial Intelligence

4. Teaching Experience

- Courses Taught:

    o Data Mining, Machine Learning, Deep Learning, Data Science, Cryptography

    o Information Retrieval,Advanced Database Management Systems

- Course Development:

    o Redesigned courses in Machine Learning and Data Science

5. Publications and Presentations

Journal Articles:

1. "Error-Aware Data Mining," International Journal of Advanced Computational Engineering and Networking, March 2016.

2. "Innovative Teaching and Effective Learning using Software Approaches: A Survey," International Journal of Advanced Computational Engineering and Networking, March 2016.

3. "Performance Evaluation of Machine Learning Approaches," APH publishing corporations, December 2017.

4. "Comparison of Data Mining Tools," APH publishing corporations, December 2017.

Conference Papers:

1. "Brain Tumor Segmentation with Comparative Studies of Four Methods in MRI Images," IEEE Bombay Section, October 2016.

Workshops Attended:

- Data Science and Analytics (IIT Gandhinagar)

- Machine Learning using Python (SGGSIET, Nanded)

- Foundations of Predictive Analytics (IIT Hyderabad)

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6. Awards and Honors

- **Fellowships:** Summer Faculty Research Fellowship - IIT Delhi, June-July 2021,2022,2023

- **Grants:** TEQIP-funded workshops

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7. Professional Experience

- **Assistant Professor,** SGGSIET, Nanded (Sep 2010 – Present)

- **Lecturer,** MIT Engineering College, Pune (Sep 2008 – Sep 2010)

- **System Consultant (Corporate Trainer),** Hyderabad (Feb 2007 – April 2008)

- **Project Trainer,** Orbit Society, Hyderabad (June 2006 – Jan 2007)

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8. Supervision and Mentoring

- Supervised multiple undergraduate and postgraduate projects in Machine Learning and Data Science.

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9. Professional Memberships

- **Computer Society of India (CSI) – Faculty Coordinator**

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10. Miscellaneous

- **Languages:** English, Hindi, Marathi

- **Skills:** Python, MATLAB, LaTeX, Data Visualization, Machine Learning Tools.