



# PRIYANKA BIRAJDAR

PhD  
Computer Science and Engineering  
National Institute of Technology Karnataka,  
Surathkal

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[github.com/priyankabirajdar21](https://github.com/priyankabirajdar21)

## CAREER OBJECTIVE

To use my knowledge and skills to contribute to the institute's growth while focusing on research and academic development.

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
PhD	National Institute of Technology Karnataka, Surathkal	9.00	2020 - Present
M-Tech (Final Year)	Walchand College of Engineering, Sangali	7.93	2019 - 20
M-Tech (Aggregate)	Walchand College of Engineering, Sangali	7.80	2018 - 20
BE (Final Year)	VPKBIET, Baramati	70.60	2016 - 2017
BE (Aggregate)	VPKBIET, Baramati	61.03	2013 - 2017
Higher Secondary Certificate	Pune Divisional Board	65.33	2012 - 2013
Secondary School Certificate	Pune Divisional Board	81.09	2010 - 2011

## PROJECTS

### • Project 1: Result Management System

December - 2015

Tools : [PHP, MongoDB]

- The Result Management System is a web application built with PHP and MongoDB, combining a dynamic backend with an interactive frontend. The backend leverages PHP to handle CRUD operations, connecting to a MongoDB database to store and manage student records, including names, roll numbers, and marks. The frontend, designed using HTML, and CSS provides a user-friendly interface for adding, viewing, updating, and deleting results.

### • Project 2: Launched an Android application **Freedom Fighters**

August - 2016

Tools : [Android Studio]

- An Android application has been launched featuring 57 Indian freedom fighters, each accompanied by a concise biography. The app serves as an educational resource, highlighting the contributions of key figures in India's struggle for independence. Users can easily navigate through the profiles to learn about the lives and sacrifices of these iconic leaders.

### • Project 3: Automatic Question Generation System

May - 2017

Tools : [Java, MySQL]

- The Automatic Question Generation System uses Java and MySQL to create questions from text documents through NLP techniques. The process involves stemming to remove suffixes, and summarization to eliminate stop words. In the noun filtering stage, nouns are identified from each sentence, which are then used to generate relevant questions efficiently.

### • Project 4: Tilt Detection System

December - 2018

Tools : [Python language, Raspberry Pi]

- A Tilt Detection System uses sensors to monitor the tilt angle of objects and transmit data via IoT for real-time analysis. For example, in an anti-theft application, a tilt sensor mounted on a parked motorcycle detects unauthorised movement or tilting.

### • Project 5: "Deep Neural Network Model to Enhance the Quality of Low-Resolution Image."

May - 2020

Tools : [Python language, Raspberry Pi]

- This project enhances image resolution using a lightweight three-layer neural network, evaluated with PSNR. Implemented in Python 3.7 with Keras and OpenCV on an Intel Core i7 with 8 GB RAM, the model shows improved accuracy and visuals using the Flower\_102 dataset.

## RESEARCH AUTHOR IDENTIFICATION

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- Google Scholar: [Priyanka Birajdar](#)
- ORCID iD : [0009-0008-1599-9394](#)

## RESEARCH PUBLICATIONS

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- EQLRI: Enhance the Quality of Low Resolution Image using Neural Network
- IQINN: Improve the Quality of Image by Neural Network

## RESEARCH AREA OF INTEREST

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- Cloud Computing
- Serverless Computing
- Internet of Things
- Neural Network
- Image Processing

## STRENGTHS

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- Effective Communication skills
- Positive Attitude
- Quick Learner
- Problem Solving

## CERTIFICATIONS

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|-------------------------------------------------------------------------------------------------------|-------------------|
| • Bharati Vidyapeeth, Pune, <a href="#">Certification 1</a>                                           | <i>Feb 2006</i>   |
| • Maharashtra Talent Search Examination, <a href="#">Certification 2</a>                              | <i>April 2009</i> |
| • Government of Maharashtra Drawing Grade Examination, <a href="#">Certification 3</a>                | <i>2008</i>       |
| • Government of Maharashtra Drawing Grade Examination, <a href="#">Certification 4</a>                | <i>2009</i>       |
| • Bharati Vidyapeeth, Pune, <a href="#">Certification 5</a>                                           | <i>Feb 2007</i>   |
| • Bharati Vidyapeeth, Pune, <a href="#">Certification 6</a>                                           | <i>Feb 2009</i>   |
| • Maharashtra Rashtrabhasha Sabha Pune, <a href="#">Certification 7</a>                               | <i>Sept 2006</i>  |
| • Geetamata Sanskrit Prabodhini, Satara, <a href="#">Certification 8</a>                              | <i>Apr 2009</i>   |
| • Geetamata Sanskrit Prabodhini, Satara, <a href="#">Certification 9</a>                              | <i>Apr 2010</i>   |
| • AICPTR, <a href="#">Certification 10</a>                                                            | <i>2010</i>       |
| • Annappa Kadadi High School, Solapur, <a href="#">Certification 11</a>                               | <i>Jan 2013</i>   |
| • Ministry of Water Supply, Government of Maharashtra, <a href="#">Certification 12</a>               | <i>Dec 2012</i>   |
| • ORBIT, Advanced Computer Training, Baramati, <a href="#">Certification 13</a>                       | <i>Sept 2014</i>  |
| • Disha Computer Institute, <a href="#">Certification 14</a>                                          | <i>–</i>          |
| • Indian Institute of Technology Bombay, <a href="#">Certification 15</a>                             | <i>2015</i>       |
| • Grad2Guru, <a href="#">Certification 16</a>                                                         | <i>Aug 2015</i>   |
| • VPKBIET, Baramati, <a href="#">Certification 17</a>                                                 | <i>Feb 2017</i>   |
| • Vidya Pratishthan's Institute of Information Technology, Baramati, <a href="#">Certification 18</a> | <i>Jan 2016</i>   |
| • Walchand College of Engineering College, Sangli, <a href="#">Certification 19</a>                   | <i>Jan 2020</i>   |
| • Walchand College of Engineering College, Sangli, <a href="#">Certification 20</a>                   | <i>July 2019</i>  |

• Udemy: Online Courses, <a href="#">Certification 21</a>	<i>Oct 2019</i>
• Udemy: Online Courses, <a href="#">Certification 22</a>	<i>June 2020</i>
• Udemy: Online Courses, <a href="#">Certification 23</a>	<i>Jan 2020</i>
• Udemy: Online Courses, <a href="#">Certification 24</a>	<i>Dec 2019</i>
• Walchand College of Engineering College, Sangli, <a href="#">Certification 25</a>	<i>Aug 2020</i>
• IEEE International Conference for Innovation in Technology (INOCON), <a href="#">Certification 26</a>	<i>Nov 2020</i>
• Chief Executive Officer (CEO) of Zilla Parishad Sangli, Maharashtra, <a href="#">Certification 27</a>	<i>Oct 2019</i>
• 3rd International Conference on Soft Computing and Signal Processing, <a href="#">Certification 28</a>	<i>Aug 2020</i>
• IEEE NITK Student Branch, <a href="#">Certification 29</a>	–
• NVIDIA, <a href="#">Certification 30</a>	–
• Anjuman Institute of Technology and Management, <a href="#">Certification 31</a>	–
• Cyberpeace Foundation, <a href="#">Certification 32</a>	–
• Udemy: Online Courses, <a href="#">Certification 33</a>	<i>May 2022</i>

## ACHIEVEMENTS

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- [Achievement 1](#)  
Secured third place in a poster presentation during a technical event organized by the Civil Engineering Department on February 24, 2017, at VPKBIET Baramati.
- [Achievement 2](#)  
Successfully qualified for the Graduate Aptitude Test in Engineering (GATE) in 2018, conducted by the Indian Institute of Technology (IIT) Guwahati.

## POSITIONS OF RESPONSIBILITY

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- [Responsibility 1](#)  
Successfully served as a volunteer at the 2022 IEEE 7th International Conference on Recent Advances and Innovations in Engineering, hosted by NITK Surathkal.
- [Responsibility 2](#)  
Served as a core committee member for the Research Premier League (RPL) 2023, held from February 18 to 26, 2023, at the National Institute of Technology Karnataka.
- [Responsibility 3](#)  
I effectively carried out the responsibilities of Research Scholar Representative for the Ph.D. program during the academic year 2022-23 in the Department of Computer Science and Engineering at the National Institute of Technology Karnataka, Surathkal.
- [Responsibility 4](#)  
I effectively served as the class representative for the M.Tech batch of 2018-2020 in the Department of Computer Science and Engineering at Walchand College of Engineering, Sangli.

## VOTE OF THANKS. . .

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I am deeply thankful to my parents, teachers, friends, and well-wishers for their support, guidance, and encouragement, which have greatly influenced my academic and personal growth, inspiring me to face challenges with determination.