

# Tayyabali Sayyad

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## Profile

Assistant Professor of Information Technology with over 16 years of academic experience at Don Bosco Institute of Technology, Mumbai. A passionate educator and technical mentor with a strong foundation in Computer Science and a focused research interest in Smart City Geospatial Intelligence.

Demonstrated leadership in curriculum development, organizing college-level hackathons, mentoring students at Smart India Hackathons, and serving as the CSI Student Branch Counselor. Spearheaded initiatives such as the IEEE Computer Society Chapter, environmental sustainability clubs, and actively participated in NSS camps focused on GIS-based tree mapping.

Conducted interdisciplinary workshops on GIS, Cybersecurity, and Stock Market Technical Analysis, along with technical sessions on WordPress development and Django-based web applications. Experienced in handling college websites, web apps, and Moodle servers, ensuring robust academic IT infrastructure.

Adept at blending theory with hands-on learning, fostering innovation-driven classrooms, and mentoring students on real-world projects that bridge technology and societal impact.

Eager to pursue a doctoral degree to deepen research expertise and contribute original solutions at the intersection of AI, GIS, and Smart Cities, with a vision for sustainable urban development and intelligent systems.

## Experience

### Assist Professor | Don Bosco Institute of Technology | August 2008 – Present

- IEEE-CS chapter faculty advisor, served as the CSI students chapter head
- Institute-level websites, Web Server, and Moodle server management
- Project Coordinator, Open-Source Promoter
- Active in NSS Camps and teaching learning activities
- Training schools' children on STEM courses under the L&T-sponsored CrEAST Program.

  

- **M.TECH:** Computer Science and Programming, Visvesvaraya National Institute of Technology- Nagpur, 2014
- **Bachelor's of Engineering:** Computer Engineering, Sindhudurg Shikshan Prasarak Mandal's College of E- Kankavli, Sindhudurg, 2008
- **Diploma:** Computer Engineering, Government Polytechnic Thane Thane 2005

## Skills & Abilities

- C, C++, Java, Python, HTML, CSS, JavaScript, Linux, QGIS, R, Django, Docker, Ansible, GitHub, Moodle, WordPress, Nginx, AWS

## Activities and Interests

- Mentoring of the team for Smart India Hackathon at the National Level, organized by the MHRD Government of India. Won 1st prize in 2017 and 2024.
- Study group member for Maharashtra State Bureau of Textbook Production & Curriculum Research, Pune. Was able to successfully bring the open-source tools into the textbooks. 2018
- Session on Python libraries for geospatial analysis at VJTI, Mumbai.
- Hands-on Session on Nginx web server at Vidyavardhini's College of Engineering and Technology, Vasai, 2023

## Certifications

1. 2-Week Courses on Management and Governance of Ground Water by ACWADAM - Pune
2. Introduction to Financial Markets - Coursera
3. An Entire MBA in 1 Course - Udemy
4. Remote Sensing for Water Resources – Udemy

## Research Papers

1. Computer Adaptive Testing Using Rule-Based, Asian Journal of Convergence in Technology ISSN NO: 2350-1146 I.F. 5.11
2. Framework For Groundwater Resource Governance System Using, Participatory Approach For, Osmanabad District. The 2nd International Conference on Sustainable Water Management is being organized by the Water Resource Department, Govt of Maharashtra, during November 6-8, 2019 at Pune, Maharashtra, India
3. A Design and Development of Rubrics System for Android Applications, American Journal of Engineering Research (AJER) e-ISSN: 2320-0847 p-ISSN: 2320-0936 Volume-7, Issue-3, pp-279-287

## Courses Tought

1. Operating System
2. Data Structures
3. Wireless Technology
4. Cloud Computing
5. Advanced DevOps
6. Information and Network Security
7. Data Mining
8. Java Programming
9. Open Source Software Lab
10. Computer Networks
11. Information Storage Management and Disaster Recovery

## Projects

- NSS Website - <https://nssmu.in/>

- NSS E-Diary web application for Mumbai University
- Ground Water Governance System using Django
- Attendance application for St. Paul's Institute, Bandra, Mumbai
- Admission form application for St. Paul's Institute, Bandra, Mumbai