Dr. Tahamina Yesmin
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SUMMARY

Around **8 Years** of **teaching** and **industrial** experience including **7 years of teaching experience** in well-known Management college in department of Computer Science and Engineering. Around **1 years of industrial experience** in the Web Development Field.

PROFESSIONAL INTERESTS

C Language, Artificial Intelligence, JAVA, Image Processing, Computer Organization, Software Engineering, OS.

OBJECTIVE

An organized professional teacher with strong subject knowledge and practical experience seeks to provide high-level teaching lessons to students.

WORK EXPERIENCE

➢ Working for **Adamas University, Kolkata, India** as **Faculty of Computer Science and Engineering** since 4th October 24 to till date.

Key responsibilities:

- Deliver set courses to students within the institute.
- Provide learning support for students, specific to courses and modules being taught.

➢ Working for **Sikkim Manipal Institute of Technology, Sikkim, India** as **Faculty of Computer Science and Engineering** since 7th June 24 to till October 24.

Key responsibilities:

- Deliver set courses to students within the institute.
- Provide learning support for students, specific to courses and modules being taught.
- DRC Member for research assistance.
- Nucleus member of {AD-(A)-Acad-Cell].

➢ Working for **Haldia Institute of Management, Haldia, India** as **Faculty of B.sc in Computer Science Division** along with other Management department Computer Science courses since May 2018 to 3rd June 2024.

Key responsibilities:

- Deliver set courses to students within the institute.

- Design Course Syllabus Study Materials with proper skill.

- Prepare Questions for University in different subjects (Practical and Theoretical).

- Set and mark student assessments (both internal and External).

- Mentoring students to providing assistance and support as required.

- Ensure student and personal records are completed accurately and forwarded to Administration.

- Supervising and Evaluate student's projects as a Project Guide and Visiting students on work placement.

- Guide students for their placement.

- Provide learning support for students, specific to courses and modules being taught.

- Assist administration in planning and Developing the ERP System for College.

- Self-Development through Research, knowledge and skills.

➢ Worked for **Apex Academy, Mahishadal, West Bengal, India** as **Assistant Teacher** from December 2018 to March 2018

Key responsibilities:

- Creating Course Plan and Teaching Materials.

- Taking Programming Languages classes for ICSE and ISE students.

- Supervising and Evaluate student's practical works along with small projects.

- Set and mark student assessments (Internal).

- Provide learning support for students, specific to courses and modules being taught.

➢ Worked for **Proper Web Technology Pvt. Ltd, Jadavpur, West Bengal, India** as **Junior Developer,** from January 2017 to August 2017.

Key responsibilities:

- Write and Debug Code.

- Collaborate with other senior developers to build and maintain applications.

- Build applications for PHP WordPress platform using some common frameworks.

- Execute the Software issues.

- Provide on-call support to client when necessary.

ACADEMIC RECORD

- **Ph.D.** in **Computer Application** from **Sri Satya Sai University of Technology and Medical Sciences, Sehore, India (2024).**
- **Master of Computer Applications (MCA)** in August 2017 from **Vidyasagar University, West Medinipur, India** with an aggregate of 75.7%.
- **Bachelor of Computer Applications (BCA)** in **Computer Application** in August 2014 from **Global Institute of Science and Technology, Haldia, India** with an aggregate of 79.8%.
- **Higher Secondary** in June 2011 with an aggregate of 64.3%
- **Secondary** in March 2009 with an aggregate of 73.4%

Citations

1. J Kandpal, A Singh, "Opportunity and Challenges for VLSI in IoT Application - 5G Internet of Things and Changing Standards ",2022 - igi-global.com**(h-index)**, Abstract: Internet-of-things (IoT) systems combine sensing, computation, storage, and communication to sense physical systems and respond accordingly. However, larger size.

2. S Kalogiannidis, M Paschalidou, D Kalfas..." Relationship between Cyber Security and Civil Protection in the Greek Reality"- Applied Sciences, 2023 - mdpi.com, Abstract: The links between cybersecurity and civil protection in the last decades became strong due to the rapid increase in the use of Informatics Technologies (IT) worldwide and the need to.

3. EEK Senoo, E Akansah, I Mendonça, M Aritsugi , "Monitoring and Control Framework for IoT, Implemented for Smart Agriculture- Sensors", 2023 - mdpi.com, Abstract: To mitigate the effects of the lack of IoT standardization, including scalability, reusability, and interoperability, we propose a domain-agnostic monitoring and control framework (MCF) for.

   Many more...

Patents

1. Application Number: 202331074573

TITLE OF THE INVENTION

AN OPTIMAL MATHEMATICAL MORPHOLOGY AND K-MEAN CLUSTERS BASED METHOD

FOR SEGMENTING IMAGES.

FORM 26

THE PATENTS ACT, 1970

(39 OF 1970)

&

THE PATENT RULES, 2003

FORM FOR AUTHORIZATION OF A PATENT AGENT/OR ANY PERSON IN A MATTER OF

PROCEEDING UNDER THE ACT

(See Section 127 and 132; rule 135)

POWER OF ATTORNEY

Copyrights Granted/Filed

1. Dairy No: L-109108/2021

Date of filing: 18/11/2021

Title: Plant Leaf Disease Diagnosis, Classification and Enhancement for Discovery Accurate Shading through Color Model.

Inventors: Tahamina Yesmin, Dr. Subhankar Joardar, Dr. Pinaki Pratim Acharjya, Dr. Pradeep N., Dr. Tulika Chakrabarti, Dr. Prasun Chakrabarti, Dr. Sandeep Poddar, Dr. Pradeep Laxkar.

AWARD

➢ Awarded as **Best Faculty 2022** from Haldia Institute of Management on Teaching (based on students' feedback) and Research (based on API score) work area.

EDITORIAL COMMITTEE MEMBER

➢ Published successfully three quarterly peer reviewed journal **as a Co-Editor of IJIPAR Journal.**

PUBLICATIONS

➢ **Tahamina Yesmin,** Paper Title: "AI and ML Technologies Application for Improvement of Renewable Energy Systems: A Review", *International Journal of Computer Science and Mobile Computing*, Volume-13, Issue-12, ISSN (Online): 2320-088X, DOI Prefix from CrossRef: 10.47760/ijcsmc, Impact Factor: 7.056, Dec-24**.**

➢ **Tahamina Yesmin,** Paper Title: "Detection Segmentation and Noise Removal Process of Cancerous Image Cell of Liver Through Modified Marker-Controlled Watershed Approach", *conference* by **SPRINGER NATURE**, International Conference on Intelligent Systems and Security, 24, Paper **ACCEPTED.**

➢ **Tahamina Yesmin,** Harsh Lohiya, Pinaki Pratim Acharjya, "An Analysis of Watershed Approach with Distance Transform and Laplacian of Gaussian Operator in Regard to Evaluating Medical Images", International Journal of Computer Science and Mobile Computing (IJCSMC), Issue: 10 Volume: 12, Page Numbers: 1-9 https://doi.org/10.47760/ijcsmc.2023.v12i10.001, 2023**.**

➢ **Tahamina Yesmin,** Harsh Lohiya, Pinaki Pratim Acharjya, "Detection and Segmentation of Brain Tumor by Using Modified Watershed Algorithm and Thresholding to Reduce Over-

Segmentation", https://doi.org/10.1109/InC457730.2023.10262891, **IEEE Xplore** (April-May),2023 **SCOPUS Indexed.**

➢ **Tahamina Yesmin,** Harsh Lohiya and Pinaki Pratim Acharjya, "Comparative Study and Analysis of Edge Detection Operators in Marker Controlled Watershed Transformation Algorithm on Various Medical Images', International Journal of Computer Applications 185(16):1-17, June 2023.

➢ **Tahamina Yesmin**, Pinaki Pratim Acharjya," Identification and Segmentation of Medical Images by Using Marker-Controlled Watershed Transformation Algorithm, XAI, and ML", Novel Research and Development Approaches in Heterogeneous Systems and Algorithms, *Chapter 3, 2023, by* **IGI Global***, ISBN13: 9781668475249|ISBN10: 1668475243|EISBN13: 9781668475263|ISBN13 Softcover: 9781668475256, https://www.igi-global.com/book/novel-research-development-approaches-heterogeneous/308298,* **SCOPUS Indexed.**

➢ Sarmistha Agasty, Jyoti Kumari Pandit and **Tahamina Yesmin** "Need of Consumer Protection Act Through Educational Awereness Among College Students:All Indian Perrspective", Journal of Pharmaceutical Negative Results, Vol. 13 No. 7, **SCOPUS.**

➢ **Tahamina Yesmin,** Pinaki Pratim Acharjya, "Medical Image Processing Technique for Analyzing CT Scan Images by Using Improved Marker-Controlled Watershed Algorithm", Stochastic Modeling & Applications, Vol. 26 No. 3 (January - June, Special Issue 2022 Part - 2),1372, Special Issue on Recent Research on Management, Applied Sciences and Technology, ISSN: 0972-3641, **UGC Care Approved Journal (Grade A)**.

➢ **Tahamina Yesmin**, Pinaki Pratim Acharjya," Morphological Approaches and Segmentation of Medical Images with Different Watershed Transformations", *The 6th International Conference on Trends in Electronics and Informatics (ICOEI 2022), by* **IEEE Explore***, 978-1-6654-8328-5/22/$31.00 ©2022 IEEE. https://ieeexplore.ieee.org/document/9777158/authors#authors,* **SCOPUS Indexed.**

➢ **Tahamina Yesmin**, Sarmistha Agasti, Jyoti Kumari Pandit and Bidhan Mondal, Chapter Title: "Cyber Security and it's Prediction with Cloud Data Computing SRNN Algorithm and IoT Number", *conference* by **SPRINGER NATURE**, Smart Innovation, Systems and Technologies, Vol. 311, Jyoti Choudrie et al: ICT WITH INTELLIGENT APPLICATIONS,978-981-19-3570-1, 526192_1_En, DOI: https://doi.org/10.1007/978-981-19-3571-8_6.

➢ Jyoti Kumari Pandit, **Tahamina Yesmin** "Importance of Manpower Planning in Health Care Sector of West Bengal – A Literature Review", Science, Technology and Development, PP. 97-103, ISSN No.0950-0707, December 2021. DOI: 21.18001.STD. 2021.V10I12.21.352211/. **Impact Factor: 6.1.**

- **Tahamina Yesmin,** Jyoti Kumari Pandit "Benefits and Applications of Artificial Intelligence and Machine Learning in the Field of HealthCare", *Compliance Engineering Journal,* PP. 12-18, ISSN No. 0898-3577, December 2021. DOI: http://ijceng.com/VOL-12-ISSUE-12-2021/. **Impact Factor: 6.2.**

- **Tahamina Yesmin,** "Teaching and Learning Mode Reform in Digital Image Processing by Using Color Model", *International Journal of Scientific Research in Computer Science, Engineering and Information Technology*, PP. 10-16, ISSN No. 2456-1-3307, July 2021. DOI: https://doi.org/10.32628/CSEIT2173174. **Impact Factor: 7.254.**

- **Tahamina Yesmin**, Sarmistha Agasti and Kisalaya Chakrabarti, Chapter Title: "5G Security and Privacy Issues: A Perspective View", *conference held on April 2021. Book: ICT WITH INTELLIGENT APPLICATIONS*, 978-981-16-4176-3, Vol. 248, **SPRINGER NATURE**, https://link.springer.com/book/10.1007/978-981-16-4177-0.

- **Tahamina Yesmin** and Kisalaya Chakrabarti, "Improving Data Validation Using Machine Learning, A New Way of Seeing Big Data", *Contemporary Issues in Computing*, PP. 54-58, ISBN No. 978-1-948012-16-4, December 2020. http://doi.org/10.26480/cic.01.2020.54.58

- **Tahamina Yesmin**, "A Study of Effectiveness and Feasibility of Online Teaching and Learning Method during Covid 19", *Suraj Punj Journal for Multidisciplinary Research*, Vol. 10, Issue. 11, PP. 197-204, ISSN No. 2394-2886, Nov 2020. http://doi.org/16.10089.SPJMR. 2020.V10|10.16.3305. **Impact Factor: 6.1.**

- **Tahamina Yesmin** and Kisalaya Chakrabarti, "Impact of Stresses on Different Societies during the Lockdown Period due to COVID-19 Infection", *International Journal of Creative Research Thoughts*, Vol. 8, Issue. 9, PP. 2265-2271, ISSN No. 2320-2882, Sep 2020. DOI: http://doi.one/10.1729/Journal.24490. **Impact Factor: 7.97.**

- **Tahamina Yesmin,** "Steganography and Cryptography an Art of Hiding Data", *International Journal of Computer Science Trends and Technology*, Vol. 7, Issue. 5, pp.96-100, ISSN No.2347-8578, Oct 2019. DOI: 10.33144/23478578/IJCST-V7I5P11. **Impact Factor: 5.21.**

- **Tahamina Yesmin,** "Audio Signal Processing: A Review of Audio Signal Classification & Segmentation Features", *International Journal of Innovative Practice and Applied Research*, Vol. 9, Issue. 3, pp.128-133, ISSN No.2349-8978, July-Sep 2019. **Impact Factor: 7.36.**

- **Tahamina Yesmin,** "Knowledge Based Artificial Intelligence and its Impacts in the Field of Healthcare", *Journal of Emerging Technologies and Innovative Research*, Vol. 6, Issue. 5, pp.385-390, ISSN No.2349-5162, May 2019. http://www.jetir.org/papers/JETIR1905768.pdf. **Impact Factor: 7.95.**

PAPER PRESENTED AT CONFERENCE/SEMINER

➢ **Tahamina Yesmin,** Paper Title: "Detection Segmentation and Noise Removal Process of Cancerous Image Cell of Liver Through Modified Marker-Controlled Watershed Approach", *conference* by **SPRINGER NATURE**, International Conference on Intelligent Systems and Security, 24**.**

➢ **Tahamina Yesmin**," Detection and Segmentation of Brain Tumor by Using Modified Watershed Algorithm and Thresholding to Reduce Over-Segmentation", *IEEE International Conference on Contemporary Computing and Communications (InC4), by IEEE, 21-22 April 2023, CHRIST (Deemed to be University), Bangalore, India.*

➢ **Tahamina Yesmin**," Morphological Approaches and Segmentation of Medical Images with Different Watershed Transformations", *The 6th International Conference on Trends in Electronics and Informatics (ICOEI 2022), by IEEE, 28th – 30th April, Tirunelveli, India.*

➢ **Tahamina Yesmin**, Chapter Title: "Cyber Security and it's Prediction with Cloud Data Computing SRNN Algorithm and IoT Number", *conference* by **Springer Nature**, Ahmedabad, India, 23-24 April 2022, Paper ID-13.

➢ **Tahamina Yesmin,** "5G Security and Privacy Issues: A Perspective View", *Fifth International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2021),* Ahmedabad, India, 23-24 April 2021. Paper ID – 107.

➢ **Tahamina Yesmin,** "Improving Data Validation Using Machine Learning a New Ways of Seeing Big Data", *1st International Conference on Contemporary Issues in Computing*, held at GMIT, Kolkata, 25th – 26th July 2020. ICCIC-2020/124-01.

➢ **Tahamina Yesmin,** "Color Image Processing for Education: A Teaching and Learning Approach", *Innovative Practice in Higher Education and Research in Reference to Europe and Asia*, held at Haldia Institute of Management, Purba Medinipur in November 2019.

➢ **Tahamina Yesmin,** "Importance of Rural Awareness with the help of AI", *NAAC sponsored two-day Conference*, held at Mugberia Gangadhar Mahavidyalay, Purba Medinipur, December 2018.

WORK SHOP / SEMINARS / FDP ATTENDED

➢ One Week Online **Short-Term Course** on "Advanced NLP: Integrating AI and ML Techniques" organized by the Department of Information Technology, Dr B R Ambedkar National Institute of Technology Jalandhar, from December 20-24, 2024.

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- **Faculty Development Program** on Becoming a conscious teacher at Sikkim Manipal Institute of Technology by Heartful Campus India from 16-20 July 2024
- One Week International **Faculty Development Program (FDP)** on "Ethics & Integrity in Management Practices" held from 22nd -26th July, 2024 at Sushant University, Gurugram, India.
- **Faculty Development Program** on "Effects of Generative AI in modern Research and Industry" from 29th April to 3rd May 24, *Sister Nivedita University, Kolkata.*
- **Faculty Development Program** on "Recent Advances and Future Trends in AI and NLP" from 15th April to 19th April 24, *GIST, Haldia.*
- **Faculty Development Program** on "The Recent Trends of Big Data and Artificial Intelligence In The field Of Computer Science Engineering And Agriculture Engineering" from 5th June to 12th February 2024, *Sir Chhotu Ram Institute Of Engineering & Technologic University, Meerut*.
- **Virtual Workshop on** "Research Opportunities in Semiconductor Materials and Devices" from 19 October 2022 to 24 October 2022.
- **Faculty Development Program** on "Machine Learning and Internet of Things" from 6th June to 10th June 2022, *Global Institute of Science and Technology*, Haldia, WB.
- **Faculty Development Program** on "Applications of Machine Learning in Healthcare Technology" from 22 Feb to 26 Feb 2022, *Narayana Engineering College, Nellore*.
- **Faculty Development Program** on "Wearable Devices" from 15 Feb to 19 Feb 2022, *Electronics and Communication Engineering*, Gudur.
- **AICTE, India Approved Faculty Development Program** on "*Application of Artificial Intelligence in Research and Development*" from 05 July to 09 July 2021, CSIR -Advanced Materials and Processes Research Institute, Bhopal.
- **AICTE, India Approved Faculty Development Program** on "*Cyber Security: A step towards awareness to Cyber Crime*" from 14 June to 18 June 2021, ENGINEERING COLLEGE AJMER.
- **AICTE, India Approved Faculty Development Program** on "*Management Information System*", 5 days program during 8 February to 12 February, Tripura University.
- **International Conference on** "*Fifth International Conference on Information and Communication Technology for Intelligent Systems*", during 23-24 April 2021, ICTIS 2021, Ahmedabad, India.
- **AICTE, India sponsored Short Time Training Program** Phase II on "*AI-MIMO*", 6 Days, 14th to 19th December 2020.

- **Faculty Development Program** on "*Soft Skills and Awareness*", 7 Days, Amity University, 14th Dec to 20th Dec 2020.
- **Online Faculty Development Program** on "*Data Science & Its Applications in STEM (Under TEQIP-3)*" 15 Days under TPQIP-3, 07th to 21st September 2020.
- **International Webinar and Faculty Development Program** on "*Recent Trends in Electrical Engineering*", 5 Days, 14th 18th July 2020.
- **International Conference on** "*International Conference on Contemporary Issues in Computing*", during 25-26 July 2020, ICCIC 2020, Kolkata, India.
- **Virtual Workshop on** "Antenna Design" from 13 August 2020 to 15 August 2020.
- **Faculty Development Program** on "*Recent Developments in Material Science and Radiation Technology*", 3 Days, 8th to 10th July 2020.
- **Faculty Development Program** on "*Advances in Thermo-Fluids and Turbo machines*", 6th to 10th Jun 2020.
- **NASA EPDC Webinar on** "*Where is NASA Going? And how do Universities Fit into that Journey*?" 2020.
- **NASA EPDC Webinar** on "*Educator Professional Development Event*", 2020.
- **National Seminar on** "Evolu*tionary Approaches of Optometry in Modern Vision Science and Healthcare Management*" Haldia, Haldia.
- **International Seminar** on "*Understanding the changing needs in Human Behavior Leading to Modification of Education for a Better Society*".
- **International Seminar on "***International Conference on Information Technology and Applied Science*", Haldia, India.
- **National Seminar on "***Advanced Computation, Algorithm & Security*", Mugberia, Contai, India.

ACHIVEMENTS

- **Completed successfully Online Training Program on "**MATLAB and LabVIEW Programming for Engineering Applications", Organized by Department of National Institute of Technical Teachers Training and Research, 24 January to 4 February 2022.
- **Completed successfully National Institute of Technology, Silchar certified Online Short-Term Training Program on "**Energy Conservation for Sustainable Society: Innovation and Entrepreneurial Opportunity", Organized by Department of Mechanical Engineering and Department of Electrical Engineering, 27 February to 4 March 2022.

- **Completed successfully Ministry of Education, Govt. of India certified Online Training Program on "**MATLAB and LabVIEW Programming for Engineering Applications", Organized by Department of Electronics & Communication Engineering, 24 January to 4 February 2022.
- **Completed Certified self-paced training course on** "*Deep Learning Onramp*", MathWorks Training services, 1/02/2022.
- **Completed successfully 7 Days Training Program on "Dimensions of Wellness (Change your habits, change your Life)"** Organized by Smt.K.G. Mittal college of Arts and Commerce, Research Foundation of India & JHERF from 6 February 2021 to 12 February 2021.
- **Completed successfully AICTE sponsored certified Short Time Training Program on "***Millimeter (Mm) Wave and Massive MIMO Applications For 5G Wireless Networks Using AI*", Organized by Department of Electronics & Communication Engineering, 25 January to 1 February 2021.
- **Completed Python Programming Certified Training Program on** "*Introduction to Python Programming*", Avinash Jain, Udemy, 2/01/2020 to 27/01/2020.
- **Completed MATLAB Programming Certified Training Program on** "*Became a MATLAB Programmer in 30 Days*", Hossein Technology, Udemy, 19/12/19 to 19/01/20.

MAJOR SUBJECTS TAUGHT

- Artificial Intelligence
- Image Processing
- Computer Organization
- JAVA
- Search Engine Optimization
- Software Engineering

MAJOR LABORATORIES HANDLED

- MATLAB
- JAVA
- DBMS

STRENGTHS

- A dedicated and punctual individual with a strong sense of responsibility.
- Ability to understand, flexible and Quick Learner.

WEB LINKS

- https://www.linkedin.com/in/tahamina-yesmin-617548136
- https://www.researchgate.net/profile/Tahamina_Yesmin

- https://orcid.org/0000-0002-5931-793X
- https://www.scopus.com/authid/detail.uri?authorId=57387132800
- https://scholar.google.com/citations?user=CEQmwT0AAAAJ&hl=en

PERSONAL DETAILS

- **Permanent Address** : Kapasaria, Mahishadal, Purba Medinipur, West Bengal, 721628
- **Date of Birth** : 24-Jun-1993
- **Passport No.** : T3575920 (*Place of Issue:* **Kolkata, India**; *Valid till*: **13-May-2029**)

REFERENCES

- Dr. Laxmi Narayana Gollapudi, Professor, Bahrain Polytechnique, Bahrain.
  Mobile: +91 9246461438, Email id: gollapudi.narayana@polytechnic.bh.
- Miss. Satakshi Chaterjee, Assistant Professor, Amity University, India.
  Mobile: +91 7760443930, Email id: Satakshi@himhaldia.edu.in .
- MR. Sourav Jana, Mechanical Engineer, MAN Energy Solution, India.
  Mobile: +91 8900643623, Email id: sourav.jana@man-es.com .