

CURRICULUM VITAE

Dr. Vikul Jagansing Pawar

M.E.(CSE), Ph.D.(CSE)

Assistant Professor,

Computer Science & Engg. Dept.

Government College of Engineering

Aurangabad.

E-mail: vikul.pawar@geca.ac.in



[Career Objective]

To work in academic, administrative, professional, and challenging environment where in I can effectively use my experience and skills for the benefit and growth of the society and organization.

[Qualification]

- **Ph.D.** in Computer Science and Engineering Under **QIP** at Computer Science and Engineering Dept, **University College of Engineering, Osmania University, Hyderabad** in May 2023.
- **M. E. Computer Science and Engineering**, From Government College of Engineering Aurangabad, Dr. BAMU Aurangabad, in 2014 with Distinction (**8.625 CGPA**).
- **B. E. Computer Science and Engineering**, From Babasaheb Naik College of Engineering Pusad, SGB Amravati University in 2006 with First Class (**68.74%**).
- **HSC**, from Anglo Hindi Jr College Yavatmal, Amravati board.
- **SSC**, from G.D. High school pusad, Amravati board.

[Academic and Professional Experience]

Total Experience: 16 Years 00 Months.

- **12 Years and 06 Months** of experience as an **Assistant Professor** in Computer Science & Engineering Dept., **Government College of Engineering Aurangabad**, (from 07th January 2011 to till date).
- **18 months** of experience as a **Lecturer** in Computer Science & Engineering Dept., at **Babasaheb Naik College of Engineering Pusad**, (from July 2009 to Dec 2010).
- **2 Years** of experience in Mainframe Software Development at **CapGemini India Pvt Ltd. Pune**, Maharashtra, as an Associate Consultant, (from June 2007 to June 2009).

[Teaching and Administrative Experience/Responsibility]

- Working as **Assistant Professor in Computer Science and Engineering** department taught various subject to First year, Third year, and Final Year of Computer Science Engineering Students.
- Presently working as **Assistant Controller of Examination in Examination Cell** of Government College of Engineering Aurangabad
- Presently handling as **Incharge for Data Center** of Institute in Government College of Engineering Aurangabad.
- Presently handling as **Incharge for R&D Lab of Computer Science and Engineering** Department.
- Worked as incharge of Facilitation Center for DSE Engineering Admission **2017-18**.
- Worked as **Departmental Controller of Examiner for Computer Sc. Engg. And MCA** department for **5 Years**.
- Following responsibilities handled while working as DCOE.
 - ❖ Preparation of Panel of Examiner for ESE theory and practical examination
 - ❖ Preparation and conduction of theory examination for two departments.
 - ❖ Preparation and conduction of Practical examination for two departments.
 - ❖ Arranging the Examiner for Practical Exam as per Examiner panel approved by DSB and Examination section.
- Worked as **Warden for Boys Hostel** for **8** years, during year 2011 to 2019 in Government Engineering College Aurangabad, while handling this portfolio worked on various activities related to students and at Institute level, mention as follows.
 - ❖ Preparation of hostel allotment as per category reservation and on merit basis for hostel admission.
 - ❖ Advisory board Member for Co-operative MESS in Boys Hostel
 - ❖ Advisory board Member for Co-operative MESS in Girls Hostel
 - ❖ Taking care of all issues related to Mess contractor of food provided by his agency.
 - ❖ Taking care of maintenance, procurement of items for hostel.
 - ❖ Incharge of Health care unit, under this portfolio I have worked to established **MOU with Shraddha Hospital Aurangabad** for getting quick response in case of emergency and providing free medical facility to all students in campus.

- ❖ Incharge member of Security, under this portfolio I have worked to identified well reputable security agency through Service Charge base tender processing. And looking after improvement in quality of service and duty provided by agency.
- ❖ Incharge member of cleaning committee, under this portfolio I have worked to identified well established cleaning agency thru Service Charge base tender processing. And looking after improvement in quality of service provided by agency.
- Worked as coordinator for various students council and students activities, Such as COMPSA (Computer Students Association) Coordinator, Class Teacher, Departmental Training and Placement coordinator, Member of ARC.
- Worked as Departmental purchase committee member.
- Worked as Departmental Procurement coordinator for TEQIP Phase II.
- Provided Consultancy for Education Department Z. P. Aurangabad.
- Worked on various Interview panel for recruiting Computer Professionals at Collector Office Aurangabad, Social Welfare Office Aurangabad.

[Teaching Interests]

- Research Methodology in Computer Science (For M.Tech and Pre-Ph.D)
- Data Analytics
- Software Testing and Quality Assurance
- Software Engineering
- Software Project Management
- Software Programming and Compiler Construction
- Distributed Database
- Cyber Security and Cyber Laws
- Advance Computer Network (Post Graduate level subject)
- Blockchain Technology(Post Graduate level subject)
- Computer Programming (C, C++, VB)
- Information Security (Post Graduate level subject)
- Database Management System
- Mainframe COBOL Programming.

[Patents]

1. Published a patent titled **“LUNG CANCER PREDICTION AND DETECTION USING DEEP LEARNING”** in *Publication of the Patent Office, India, Application No. 202121009683 A, The Patent Office Journal No. 11/2021 Dated 12/03/2021 page no.12804.*
2. Published a patent titled **“DS-SYSTEM: DOCTORS GUIDE SYSTEM FOR BRAIN TUMOR DIAGNOSIS USING DATA MINING AND BRAIN TUMOR DETECTION, CLASSIFICATION AND EVALUATION”** in *Publication of the Patent Office, India, Application No. 202021057092 A, The Patent Office Journal No. 05/2021 Dated 29/01/2021 page no.4410.*
3. Published a patent titled **“EDUCATIONAL CLOUD FRAMEWORK- A NEW FINDING AS A BETTER PRIVATE CLOUD FRAMEWORK FOR EDUCATIONAL HUB”** in *Publication of the Patent Office, India, Application No.202021038371 A, The Patent Office Journal No. 38/2020 Dated 18/09/2020 page no.40985.*

[Certifications]

- NPTEL Online Certification awarded on **“Software Engineering”** during July – October 2021 (12 Week Course) Conducted by **Indian Institute of Technology Kharagpur.**
- NPTEL Online Certification awarded on **“Digital Image Processing”** during September-December 2020 (12 Week Course) Conducted by **Indian Institute of Technology Kharagpur.**
- NPTEL Online Certification awarded with **“Silver Medal”** on **“The Joy of Computing Using Python”** during September-December 2020 (12 Week Course) Conducted by **Indian Institute of Technology Ropar.**

[Book-Chapter Publications]

1. Published a Book-Chapter titled **“Assistive Technologies for Visually Impaired Persons Using Image Processing Techniques – A Survey”** in the *Publication of Recent Trends in Image Processing and Pattern Recognition, Third International Conference, RTIP2R 2020, Aurangabad, India, January 3–4, 2020, Revised Selected Papers, Part I, Revised Selected Papers ISBN: 978-981-16-0507-9 (eBook)*

https://link.springer.com/chapter/10.1007%2F978-981-16-0507-9_9, **Springer Nature Singapore Pte Ltd. 2021.**

2. Published a Book-Chapter titled "**Educational Cloud Framework—A Literature Review on Finding Better Private Cloud Framework for Educational Hub**" in the *Publication of Microservices in Big Data Analytics Second International, ICETCE 2019, Rajasthan, India, February 1st-2nd 2019, Revised Selected Papers ISBN 978-981-15-0127-2 ISBN 978-981-15-0128-9 (eBook)* <https://doi.org/10.1007/978-981-15-0128-9>, **Springer Nature Singapore Pte Ltd. 2020.**
3. Published a Book-Chapter titled "**Enhancement In Brain Tumor Diagnosis Using Mri Image Processing Techniques**" in the *Publication of Advanced Informatics for Computing Research Second International Conference, ICAICR 2018, Shimla, India, July 14–15, 2018, Revised Selected Papers, Part II, ISBN 978-981-13-3143-5,* https://link.springer.com/chapter/10.1007%2F978-981-13-3140-4_59**Springer Nature Singapore Pte Ltd. 2019.**

[Book Publication]

1. A book published of subject "**Elements of Electronics and Computer Engineering**" for First Year Engineering students of Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

[Research Paper Publications]

1. Published a paper entitled "**Intensifying Lung Cancer Classification Model Using Hybrid-Layer Convolutional Neural Network with Enhanced-CSO Weight Optimization Algorithm**", in the *International Journal of Computing and Digital Systems*, ISSN (2210-142X), Int. J. Com. Dig. Sys.13, No.1 (Apr-23), DOI:<http://dx.doi.org/10.12785/ijcds/130164>.
2. Published a paper entitled "**Modified convolutional neural network for lung cancer detection: Improved cat swarm-based optimal training**", in the journal of *Web Intelligence Journal*, SCOPUS, ESCI Indexed Journal, ISSN print 1570-1263, ISSN online 1875-9289), Volume 21, Issue 1, Pages 37-59, Publisher IOS Press.

3. Published a paper entitled "***Pulmonary Nodule Detection and Classification In CT Images Over Employing R-CAD System***", in The Seybold Report Journal (Scopus Indexed), ISSN No. 1533-9211, DOI 10.5281/zenodo.6962497
4. Presented and published a paper entitled "***Lung Cancer Nodules Detection Using Ideal Features Extraction Technique in CT Images***", in International Conference on Advances in Computer Vision and Artificial Intelligence Technology (ACVAIT 2022) organized by Dept of Computer Science and Information Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
5. Presented and published a paper titled "***Evaluation on Lung Cancer Detection Using Computer Assisted Diagnosis (CAD) System***" in IEEE 7th International Conference on Advanced Computing and Communication Systems (ICACCS) 2021 at Sri Eshwar College of Engineering (Autonomous), Coimbatore, Tamil Nadu, India.
6. Published a paper titled "***Prediction of Degree Student Achievement Analysis***" in the AICTE sponsored International Conference on Recent Innovations in Engineering and Technology (ICRIET 2020), Erode, Tamil Nadu, India during 04-05, December 2020.
7. Published a paper titled "***Lung Cancer Detection System Using Image Processing and Machine Learning Techniques***" at International Journal of Advanced Trends in Computer Science and Engineering Available Online at <https://doi.org/10.30534/ijatcse/2020/260942020>, UGC Approved Scopus Indexed [ISSN 0974-2034] Volume 9, Issue No.4, July – August 2020.
8. Published a paper titled "***Assistive Technologies for Visually Impaired Persons Using Image Processing Techniques - A Survey***" in 3rd Biennial International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) at Dr. BAMU University Aurangabad India January 2020.
9. Published a paper titled "***Implementation of Stable Private Cloud using Open Stack with Virtual Machine results***" at International Journal of Computer Engineering and Information Technology (IJCEIT), UGC Approved Scopus Indexed [ISSN 0974-2034] Volume 11, Issue 4, April 2019.
10. Published a paper titled "***Educational Cloud Framework - A Literature Review on Finding Better Private Cloud Framework for Educational Hub***" at ICETCE-

2019_Springer IETE Sponsored by **Springer and IETE** at Jaipur India during 1-2February 2019.

11. Published a paper titled ***“Enhancement In Brain Tumor Diagnosis Using Mri Image Processing Techniques”*** at ICAICR-2018 Sponsored by **Springer and CSI** at Shimla India during 14-16 July 2018.
12. Published a paper titled ***“Android based American Sign Language Recognition System with Skin Segmentation and SVM”*** in IEEE International conference at IISC Bangalore India 2018.
13. Published a paper titled ***“Structuring Cloud Computing Using Big Data Analytics Solution: A Survey”*** at IEEE International conference on Communication and Electronics Systems (ICCES) 2016 at PPG Institute Coimbatore India.
14. Published a paper titled ***“Feature Extraction and selection from MRI Images for the brain tumor classification”*** at IEEE International conference on Communication and Electronics Systems (ICCES) 2016 at PPG Institute Coimbatore India.
15. Published a paper titled ***“Enhancing Information Security in Cloud Computing Environment Using Cryptographic Techniques”*** at IEEE International conference on Communication and Electronics Systems (ICCES) 2016 at PPG Institute Coimbatore India.
16. Published a paper titled ***“Examining the Document Image Binarization Technique for Degraded Document Images”*** at International conference on Technology and Business Management Dubai 2014.
17. Published a paper titled ***“An Improved Binarization Technique For Degraded Document Images Using Local Thresholding Method”*** at International Conference On Emerging Trends In Computer Science & Engineering (Icetcse-2014) And International Journal Of Pure And Applied Research In Engineering And Technology.

[Workshop/Expert Lecture Conducted/Coordinated]

1. Delivered Expert lecture on **“Software Testing Technique”** at Deogiri College of Engineering Aurangabad, on 11 September 2022.

2. Conducted the TWO DAYS Workshop on **“AWS and DEVOPS”** In MCA and Computer Sc. & Engg Dept; Government College of Engineering Aurangabad during 19th – 20th December 2020 under TEQIP, Worked as **Coordinator** for this Workshop.
3. Conducted the ONE WEEK TEQIP-FDP on **“Python Programming for Image Processing”** In Computer Sc. & Engg Dept; Government College of Engineering Aurangabad during 19th – 23rd September 2018, Worked as **Coordinator** for this FDP.
4. Conducted the ONE WEEK TEQIP-STTP on **“Network Security”** at Government College of Engineering Aurangabad during 7th to 11 Oct 2013, Worked as **Coordinator** for this STTP.
5. Delivered Expert lecture on **“Software Testing Technique”** at Government Polytechnic Ambad, on 11 September 2013.
6. Delivered Expert lecture on **“Software Testing Technique”** at Government Polytechnic Jalna, on 11 September 2013.
7. Conducted online exam and interview for the post computer operator in Aurangabad **collector office** in 2013 at CSE Department of GECA Aurangabad collector office.
8. Conducted the Mainframe trainings for the fresher’s at **CapGemini Pvt Ltd.Pune**.

[Workshop/Conference Attended]

1. Attended the ONE WEEK online STTP program on **“Artificial Intelligence Machine Learning And Deep Learning”** during 31st March 2023 to 4th April 2023, Organized by Dept of CSE, NIT Warangal and JNTUH Hyderabad.
2. Attended the TWO WEEK Online Live on **“Industrial Training on Drone Technology”** during 26th April to 10th May 2021, Organized by National Small Industries Corporation (NSIC), (A Government of India Enterprise) Kamalanagar, Kushaiguda Hyderabad-500062.
3. Attended the ONE WEEK online faculty development program on **“Leadership in Academic Excellence”** during 29th November to 3rd December 2021, Organized by Dr. Babasaheb Marathwada University Aurangabad, sponsored by ATAL Academy AICTE New Delhi 110 070.

4. Attended the ONE WEEK online faculty development program on **“Current Trends in Internet of Things (IoT)”** during 25th October to 29th October 2021, Organized by Dr. Babasaheb Marathwada University Aurangabad, sponsored by ATAL Academy AICTE New Delhi 110 070.
5. Attended the ONE WEEK online faculty development program on **“ARTIFICIAL INTELLIGENCE”** during 20th September to 24th September 2021, Organized by Dr. Babasaheb Marathwada University Aurangabad, sponsored by ATAL Academy AICTE New Delhi 110 070.
6. Attended the ONE WEEK online faculty development program on **“GREEN COMMUNICATIONS”** during 24th August to 28th August 2021, Organized by BMS Institute of Technology and Management Bangalore, sponsored by ATAL Academy AICTE New Delhi 110 070.
7. Attended the TWO WEEK Online Live Industrial Training on **“MATLAB FOR IMAGE PROCESSING AND DSP”** during 26th April to 10th May 2021, Organized by National Small Industries Corporation (NSIC), (A Government of India Enterprise) Kamalanagar, Kushaiguda Hyderabad-500062.
8. Attended the TWO WEEK Online Live Industrial Training on **“INDUSTRIAL INTERNET OF THINGS (IIoT)”** during 17th March to 27th March 2021, Organized by National Small Industries Corporation (NSIC), (A Government of India Enterprise) Kamalanagar, Kushaiguda Hyderabad-500062.
9. Attended the ONE WEEK Online Management Development Program on **“Professional Development Training (PDT) for TEQIP Institutions”**, during March 01-06, 2021. at Indian Institute of Management Kozhikode IIMK Campus (post); Kunnamangalam-673570 India.
10. Attended the ONE WEEK AICTE-ISTE Sponsored Online Refresher Program on **“Machine Learning and Pattern Recognition (Phase-III)”** at Dept of Electronics and Tele. Engg, SSBT's College of Engineering & Tech. Bambhori, Jalgaon (MS) India during 21st – 26th December 2020.
11. Attended the Online ONE WEEK TEQIP-III STTP on **“Recent Trends in Deep Learning (RTDL-2020)”** at Dept of Information Technology Department, Government College of Engineering Aurangabad, during 4th – 8th September 2020.
12. Attended the Online ONE WEEK TEQIP-III STTP on **“Image Processing and Data Science with MATLAB (IP&DSWM 2020)”** at Dept of Information Technology

Department, Government College of Engineering Aurangabad, during 7th – 11th July 2020.

13. Attended the Online ONE WEEK TEQIP-III STTP on **“Next Generation Software Tools and Trends for Industrial Solutions: Current Practice”** at Dept of Computer Science & Engg, Government College of Engineering Aurangabad, during 13th – 17th June 2020.
14. Attended the Online Course on **“Machine Learning with Python”** from IBM and offered through Coursera on 21st May 2020.
15. Attended the Online Course on **“Image Denoising Using AutoEncoders in Keras and Python”** from Rhyme and offered through Coursera on 19th May 2020.
16. Attended the Online Course on **“Support Vector Machines with Scikit-learn”** from Rhyme and offered through Coursera on 17th May 2020.
17. Attended the Online Course on **“Programming For Everybody (Getting Started with Python)”** from University of Michigan and offered through Coursera on 10th May 2020.
18. Attended the Online Course on **“Introduction to Data Science on Python”** from Deep learning.ai and offered through Coursera on 9th May 2020.
19. Attended the Online Course on **“Neural Networks and Deep Learning”** from University of Michigan and offered through Coursera on 9th May 2020.
20. Attended Two-week online certification course on **“Digital Transformation In Teaching Learning Process”**, Sponsored by TEQIP, NPIU HRD GOI Delhi and the course was offered by Indian Institute of Technology Mumbai during 6th April to 22nd April 2020.
21. Attended the Online Certificate of Excellence on **“Certified Peer Reviewer Course”** from Research Academy Elsevier on 27th April 2020.
22. Attended the ONE WEEK TEQIP-III STTP on **“Advances in Cloud Computing”** at Dept of Computer Science & Engg, University College of Engineering, Osmania University Hyderabad, during 27th – 31st December 2019.
23. Attended the TWO-WEEK (DST-ICPS Sponsored) on **“Cyber Security, Cryptanalysis and Security for Physical Infrastructure”** at Guru Nanak Institutions Technical Campus Hyderabad, during 9th – 20th December 2019.

24. Attended the ONE WEEK TEQIP-III STTP on **“Python Programming for Image Processing”** at Government College of Engineering Aurangabad, during 19th – 23rd September 2018.
25. Attended the ONE WEEK TEQIP-STTP on **“Recent advances in Electromagnetic, RF and Radar Signal Processing”** at Government College of Engineering Aurangabad, during 11th – 15th June 2018.
26. Attended the ONE WEEK on **“Advance computational Tools in Engineering & Technology”** at Government College of Engineering Nagpur, Sponsored by Directorate of Technical Education Mumbai, during 19th – 23rd March 2018.
27. Attended the ONE WEEK AICTE FDP on **“Cloud Computing”** at Government Polytechnic Aurangabad, Organized by NITTTR Chandigarh during 23rd-27th October 2017.
28. Attended the ONE WEEK TEQIP-STTP on **“Optimization in Machine Learning”** at Government College of Engineering Aurangabad during 27th Feb to 03 March 2017.
29. Attended the ONE WEEK TEQIP-STTP on **“Signal and Image Processing (SIP 2017)”** at Government College of Engineering Aurangabad during 6th to 10 Feb 2017.
30. Attended the TWO WEEK AICTE FDP on **“Computation and Optimization with Matlab”** at NITTTR Kolkata during 26th December 2016 to 06 Jan 2017.
31. Attended the ONE WEEK TTT Program (Sponsored by DTE Maharashtra and NASSCOM) on **“Foundation Skill in Information Technology”** at Government College of Engineering Aurangabad during 27th June 2016 to 02nd July 2016.
32. Attended the ONE WEEK FDP on **“Self-Awareness and Higher Goals in Education”** at IIT Madras during 30th May to 03rd June 2016.
33. Attended the ONE WEEK TEQIP-STTP on **“Pedagogy to Synergogy”** at Government College of Engineering Aurangabad during 7th to 11 Dec 2015.
34. Attended the TWO WEEK AICTE FDP on **“Embedded System Design Using Altium's IDE and FPGA”** at College of Engineering Pune during 15th to 26 June 2015.
35. Attended the International Conference on **“Emerging Trends In Computer Science & Engineering (Icetcse-2014)”** at B.N.C. of Engg Pusad during March 2014.

36. Attended the SIX WEEK **“Foundation Training program”** at YASHDA Training Institute Pune Government of Maharashtra during 10th Feb 2014 to 22nd March 2014.
37. Attended the ONE WEEK TEQIP-STTP on **“Research Methodology”** at Govt College of Engineering, Aurangabad during 16th to 20th Dec 2013.
38. Attended the ONE WEEK TEQIP-STTP on **“Network Security”** at Govt College of Engineering, Aurangabad during 7th to 11th Oct 2013.
39. Attended the TWO WEEK AICTE FDP on **“Computer Security”** at Walchand College of Engineering Sangali during 17th to 28th June 2013.
40. Attended the ONE WEEK TEQIP-STTP on **“Genetic Algorithm and Neuro Fuzzy Applications in Engineering”** at Govt. College of Engineering Aurangabad during 17th to 21st Dec 2012.
41. Attended the TWO WEEK ISTE workshop training at B.N.C. of Engg Pusad on **“Image Processing”** during 9th-18th June 2011
42. Attended the ONE WEEK workshop training at IIT Bombay (Powai) on **“Compiler Construction”** during 7th-13th Dec 2009
43. Attended corporate training sessions on **COBOL, Vision Plus**, at Capgemini training center Pune.
44. Attended US ascent neutralization training at Capgemini training center Pune.

[Member of Professional Bodies]

- Life Time member of ISTE (Membership No. LM-78228).
- Life Time member of International Society for Research and Development (ISRDI)
- Life Time Membership of the International Association of Engineers (IAENG).
- Member of World Academy of Science, Engineering and Technology (WASET).
- Member of Institute Research Engineers and Doctors (IRED)

[Industry Experience]

Project at Capgemini India Pvt. Ltd.

Client : HSBC Bank. (Aug 2007 – June 2009)

DESCRIPTION:

The project is HSBC credit card for India & Indonesia.

TEAM FUNCTIONALITY:

- Extracting the customer data from different subsystem.
- Formatting and validating the customer data.
- Populating those data on actual statement.
- Generate the statement and sending to Ondemand for storing purpose and to print center for printing purpose.

RESPONSIBILITY:

- Preparation of technical specification document.
- Coding modules as per client request.
- Writing jobs in JCL and programs in COBOL.
- Planning, Executing and Monitoring UAT batch.
- Resolving Defect and Issues in SIT and UAT.
- Handling weekly Status calls with the client.
- Training freshers on various tasks related to work.

Environment:IBM Mainframe, COBOL, JCL, VSAM.

DECLARATION

I hereby declare that the information furnished above is true and to the best of my knowledge.

Date: __/__/____

(Dr. VIKUL J. PAWAR)

Place: