

Dr. Dattatray Pandurang Gandhmal

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DOB: 18-08-1989



Summary:

A researcher and teaching enthusiast in the core computer science and engineering field, with full positive energy towards inculcating the best practical knowledge to students and making them industry-ready in this competitive world.

Professional Summary:

- Completed PhD in Computer Science & Engineering from VIT, Vellore in May 2021.
- Member of Board Of Studies(CSE), PAH Solapur University, Solapur

Work Experience

Sr No	Organization	Designation	Experience
1	N.K.Orchid College of Engineering & Technology	Associate Professor of Practice	Sept 2024 to Apr 2026*
2	N.B. Navale Sinhgad College of Engineering, Solapur.	Head & Associate Professor CSE Department	March 2022 to 31 May 2024
3	Walchand Institute of Technology (WIT), Solapur	Assistant Professor CSE Department	June 2012 to 31st Dec 2021
4	Walchand Institute of Technology (WIT), Solapur	Teaching Assistant CSE Department	July 2010 to 2012 (2+ Years)

• Major Roles & Responsibilities

- Taught UG students In core technical subjects like **Java Programming, C#.Net Programming, Data Structures & Algorithms, Mobile Application Development, Database and Machine Learning, UNIX Operating System.**
- Taught Course work for PhD student for the subject Network Security & Cloud Computing.
- Evaluator for IDE Boot Camp 2026 at N.B.Navale Sinhgad College of Engineering, Solapur
- Evaluator for KAVACH-2K23 Cyber Security National Level Hackathon
- Worked as a Project Coordinator in department and have framed rubrics to evaluate the projects.
- Worked as SPOC of Smart India Hackathon 2K22 and mentored teams, one team has won First Prize worth 1 Lakh Rupees.
- Evaluator/Member of Seed Money Research Proposal at Solapur University

Solapur

- o Worked on various Industry Collaborated projects.
- o Member of Board of Studies at WIT, Solapur and proposed curriculum for various subjects in line with industry requirements.
- o Installed and maintained Moodle LMS software in institute for all faculty and students to ease assessment process.
- o Guided more than 20 Project groups to successfully complete their projects. Notable achievement of project groups qualified in Smart India Hackathon, Smart City development sponsorship, won various competitions at National Level competitions.
- o Implemented many education technology activity like flipped classroom, Think Pair Share and Learn by Doing (LbD) etc.
- o NAAC Criteria 5 coordinator at institute level
- o NBA Criteria 2 Core Team Member at department level
- o Coordinator for NIRF, IIC & Start Up, IIPC, Smart India Hackathon Competition at department level.
- o Prepared hands-on lab manual for programming subjects like Java Programming, C#.Net, using Eclipse IDE and Sharp Develop IDE.
- o Secondary SPoC for Infosys Campus Connect and have played an instrumental role leading to win thrice best SPoC award and best Industry Elective Rollout award.
- o Infosys Springboard platform coordinator at institute enrolling students on platform and tracking progress.
- o Question paper setting and Assessment is done using Moodle LMS software by following Blooms Taxonomy.
- o Created many technical videos for students under Professional Learning Community at Institute.
- o Worked as a Class Coordinator for last 8+ years.
- o AVISHKAR Project competition coordinator at department level.
- o Conducted Workshop on InfyTQ preparation guidelines for students aspiring for placement in Infosys at WIT, Solapur
- o Organized, attended and conducted workshops based on various recent technology.

Achievements (Awards and Recognitions)

- 1) **GATE qualified for three times** with top All India Rank 2067.
- 2) Mentored Smart India Hackathon team and team has won 1st prize worth 1 lakh rupees in years 2022 and 2023. Two Teams Shortlisted for Grand Finale Round
- 3) Received Best Teacher Award for the year 2022-23 at N.B.Navale Sinhgad College of Engineering, Solapur
- 4) Worked in association with IIT Bombay as a coordinator for the course titled "Moodle Learning Management System"
- 5) Winner in Content Guru Event of Infosys Faculty Excellence Awards 2017.
- 6) Thrice Silver Partner Award by Infosys for contribution in Campus Connect Activity.
- 7) Top Performer in workshop conducted by IIT,Bombay titled "Mentoring Educators in

Educational Technology FDP 301x”.

8) Reviewer for various International Journals (Scopus Indexed)

Book Publication

- 1) Dr. Dattatray Gandhmal , Dr. Marunal K. Pathak , Kapil D. Dere , Nitin N. Sakhare “DEEP Learning”. Aug 2022, Nirali Publication, ISBN: 9789354517181

Patent Publishing

- 1) Patent Filled and Published in Oct 2022 titled “A Supervised Machine Learning based system for reconstructing an image from Tomographic data using Deep Learning based Image Processing and Method Thereof”

Paper Publications:

- Total 16 Paper Publications in various International journals and Conferences
- Out of which **4 SCI and 5 Scopus** Paper Publications

Scholar Link: <https://scholar.google.com/citations?user=3EDHA48AAAAJ&hl=en>

ORCID: <https://orcid.org/0000-0003-1641-9175>

	All	Since 2020
Citations	478	450
h-index	6	4
i10-index	4	3

- 1) Jawarneh, M., Arias-González, J. L., Gandhmal, D. P., Malik, R. Q., Rane, K. P., Omarov, B., ... & Shabaz, M. (2023). Influence of grey wolf optimization feature selection on gradient boosting machine learning techniques for accurate detection of liver tumor. SN Applied Sciences, 5(7), 178.(SCI Indexed)
- 2) Dixit, R., Gandhmal, D. P., & Patil, R. (2023, January). RealDApp—Decentralized Real Estate Asset Transfer Protocol Based on Blockchain. In International Conference on Smart Trends in Computing and Communications (pp. 517-523). Singapore: Springer Nature Singapore.(SCI Indexed)
- 3) Gandhmal D.P, Gajjam N, Sheikh F.(2023, June). Supply chain Optimization Technique for biofuels industries using L1 Regularization and eXtreme Gradient Boosting, JETIR
- 4) Gandhmal D.P, Shirke A. P, Ingale S.P (Nov 2022) Job Search Improving Technique Using Recommendation System And Open AI For Freelancers, , Vol12 Issue 2, Research of Review
- 5) Dixit, R., Gandhmal, D. P.,(2023, January). Gamification: Secret Ingredient in Enhancing Flavor of Theory of Computation Understanding, Smart Trends for Computing & Communication
- 6) Yalagi P. C, Gandhmal, D. P.,(2023, April).Model for effective project implementation for under graduate students,Information and Communication Technology for Intelligent Systems
- 7) Gandhmal, D. P., & Kumar, K. (2019). Systematic analysis and review of stock market prediction techniques. Computer Science Review, 34, 100190. (SCI Indexed)

- 8) Gandhmal, D. P., & Kumar, K. (2021). Wrapper-Enabled feature selection and CPLM-based NARX model for stock market prediction. The Computer Journal, 64(2), 169-184. **(SCI Indexed)**
- 9) Gandhmal, D. P., & Kumar, K. (2021). Chronological penguin Adam-based deep long short-term memory classifier for stock market prediction. International Journal of Intelligent Information and Database Systems, 14(3), 215-238. **(Scopus Indexed)**
- 10) Kumar, K., & Gandhmal, D. P. (2021). An intelligent Indian stock market forecasting system using LSTM deep learning. Indones J Electr Eng Comput Sci, 21(2), 1082-1089. **(Scopus Indexed)**
- 11) Gandhmal, D. P., & Kumar, K. (2019, February). Ensemble computations on stock market: a standardized review for future directions. In 2019 IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT) (pp. 1-6). IEEE. **(Scopus Indexed)**
- 12) Yalagi, P. S., Gandhmal, D. P., & Dixit, R. K. (2018). Business intelligence tools–content generation using moodle for self learning as an elective module. Information Technology, 2(3), **(Scopus Indexed)**
- 13) Dol, S., & Gandhmal, D. (2018, December). Use of 'Basic SQL-The Online Beginner's Guide' Site to Give Hands on Experience of SQL to Students. In 2018 IEEE Tenth International Conference on Technology for Education (T4E) (pp. 150-153). IEEE. **(Scopus Indexed)**
- 14) Gandhmal, D. P., Parihar, R., & Argiddi, R. (2011). An optimized approach to analyze stock market using data mining technique. IJCA, ICETT
- 15) Dol, S. M., & Gandhamal, D. P. (2014, December). TPFOSSS: A Modified TPS Technique to Improve Student's Conceptual understanding of Compiler Construction Course. In 2014 IEEE Sixth International Conference on Technology for Education (pp. 245-248). IEEE.
- 16) Gajjam N. S, Patnaik, Gandhmal D.P: Low Cost Surveillance Using Raspberry Pi through Email. (Dec 2016). IJSART

Faculty Development Programs / Workshops

Sr. No	Title	Organized by	Dates from to	Duration in Weeks
1	FDP on Societal Applications of Machine Learning	Shri Vishnu College, Bhimavaram	26 Dec 2022 to 30 Dec 2022	1 week
2	FDP on IOT with Data Science	Panimalar Engineering College, Chennai	19 Dec 2022 to 24 Dec 2022	1 week
3	Online FDP on "Big Data Analytics"	AICTE Training And Learning (ATAL) Academy	2021-1-25 to 2021-1-29	1 week
4	Online FDP on "Artificial Intelligence"	AICTE Training And Learning (ATAL) Academy,	2021-2-8 to 2021-2-12	1 week
5	Innovation Ambassador training	AICTE	30th June -	4 weeks

	(Foundation Level) conducted by MoE's Innovation Cell & AICTE		30th July 2021	
6	"PHP and MySQL"	Department of Electronics Engineering, Shri Ramdeobaba College of Engineering and Management, Nagpur	May 26 - 30, 2020.	1 week
7	"Java"	Pune Vidyarthi Griha's College of Engineering and Technology, Pune	18 th to 22 nd May 2020	1 week
8	Moodle Learning Management System	KJ. Somaiya Institute of Engineering and Information Technology	26th -30th May 2020.	1 week
9	AICTE Sponsored One Week Online Short Term Training Program On "Machine Learning: Algorithms and Applications in Data Science"	VIT, Pune	2-7 Nov 2020	1 week
10	Technical English for Engineers	NPTEL-AICTE	Jul-Sep 2019	8 weeks
11	FEP "LEX based Foundation Program"	Infosys	18 th to 25 January 2019	6 Days
12	Developing Soft Skills and Personality	NPTEL-AICTE	Aug-Oct 2018	8 weeks
13	ET702x: Designing Learner-Centric MOOC	IIT Bombay	02 August 2018 to 06 September 2018.	5 weeks
14	Mentoring Educators in Educational Technology (FDP 301x)	IIT Bombay	17 May 2018 to 5 July 2018	2 weeks
15	Introduction to Machine Learning	IIT Bombay	16-17 dec 2017	2 days
16	Train the Trainer Program on "Explore Machine Learning using R"	Infosys, Bangalore	27-29 Dec 2017	3 Days
17	Foundation Program 5.0	Infosys, Pune	2-4 Jan 2017	3 Days
18	Pedagogy for Online and Blended Teaching-Learning Process	IIT Bombay	14 Sep to 12 Oct 2017	2 Weeks
19	Foundation Program in ICT for Education	IIT Bombay	3 Aug to 7 Sep 2017	2 Weeks

20	WHS791x: Technical Communication for Scientists and Engineers	IIT Bombay	8 Oct to 18 Nov 2015	
21	ET601Tx: Educational Technology for Engineering Teachers	IIT Bombay	07 January - 07 March 2016.	
22	Technical Communication	IIT Bombay	8 oct to 11 Nov 2015	1 Week
23	Faculty Enablement Program on Foundation Program 4.0	Infosys Pune	5 to 9 Jan 2015	1 week
24	ISTE Workshop on Computer Networking	IIT Bombay	28 May to 5 July 2014	2 weeks
25	ISTE Workshop on Computer Programming	IIT Bombay	20 May to 21 July 2014	2 weeks
26	ISTE Workshop on Research Methodology in Education Technology	IIT Bombay	2 nd and 9 th Feb 2013	2 days
27	ISTE Workshop on Database Management Systems	IIT Bombay	21 to 31 st May 2013	2 weeks
28	ISTE Workshop on Introduction to Research Methodologies	IIT Bombay	25 June to 4 July	2 weeks
29	ISTE Workshop on Aakash for Education	IIT Bombay	10 & 11 Nov 2012	2 days

B. MOOC Courses with E-Certification

Sr No	Title of Course	Dates from to	Duration in Weeks
1	DS102X: Machine Learning for Data Science and Analytics by EDX	22 May 2021	5 weeks
2	LFS158x: Introduction to Kubernetes by EDX	27 July 2021	14 weeks
3	OTP AWS07: AWS: Getting Started with Cloud Security by EDX	27 July 2021	4 weeks
4	Programming for Everybody (Getting Started with Python) by Coursera	1 april 2020 to 20 th May 2020	7 weeks
5	Neural Networks and Deep Learning by Coursera	12 th april 2020 to 13 th May 2020	4 weeks
6	AI For Everyone by Coursera	15th April 2020 to 10th May 2020	4 weeks
7	AWS Fundamentals: Addressing Security Risk by Coursera	27 th April 2020 to 16 th May 2020	4 weeks
8	AWS Fundamentals: Going Cloud-Native by Coursera	10 th april 2020 to 16 th May 2020	5 weeks

9	Data Science Math Skills by Coursera	15th April 2020 to 20th May 2020	4 weeks
10	Introduction to Programming with MATLAB by Coursera	1 april 2020 to 27 th April 2020	9 weeks
11	Technical English for Engineers by NPTEL-AICTE	Jul-Sep 2019	8 weeks
12	Developing Soft Skills and Personality by NPTEL-AICTE	Aug-Oct 2018	8 weeks

Technical Skill

- o Sound Knowledge in Java Programming, C#.Net Programming, Data Structures and Databases
- o Proficient knowledge of Research & Projects in the areas of Big Data Analytics, Business Intelligence, Machine Learning, Data Mining, Stock Market analysis, Cloud Computing & Network Security.
- o Working Knowledge in AWS Cloud covering technology stack such as EC2, S3, VPC and IAM roles.
- o Working Knowledge in DevOps covering technology stack such as Github, Maven, SonarQube, Nexus and Jenkins.
- o Working Knowledge in Machine Learning Algorithms in Neural Networks

Projects

- 1) To Analyze and Design of Stock Market Prediction Model using NARX and Deep LSTM

Objective: To predict stock market with high prediction accuracy by designing a CPLM-based NARX method. The developed method employed wrapper-based feature selection approach for selecting very important features produced from technical indicators.

- 2) Stock Market Prediction using Association Rule Mining

Objective: To provide predictions on Indian Stock Market data by applying data mining techniques such as Association Rule.

Educational Qualification:

- PhD in Computer Science & Engineering from VIT, Vellore in year 2021
- ME with specialization in Computer Science & Engineering with Distinction from Solapur University in year 2012.
- BE (Computer Science & Engineering) with Distinction from Solapur University in year 2010.

Personal Details:

Name : Dr. Dattatray Pandurang Gandhmal

DOB : 18th Aug 1989

Language Proficiency : English, Hindi, Marathi and Telugu

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