

Dr. Abid Sarwar

MCA, Ph.D., CBSE-UGC NET, JK-SET

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CAREER OBJECTIVE

To explore my proficiency and creativity within a challenging atmosphere wherein my professional skills would prove useful and beneficial for the growth of the organization.

EDUCATIONAL QUALIFICATION

- **Ph.D. Computer Sc. & IT**, Department of Computer Science & IT, University of Jammu. Specialization in Artificial Intelligence in Medicine. (Awarded on 28.June.2017)
Title of thesis: *Artificial Intelligence-Based Prognostic Model for Clinical Diagnosis*
- **Indian National Eligibility Test for Lectureship** (UGC-NET) conducted by University Grants Commission in December 2014.
- **Jammu & Kashmir State Level Eligibility Test for Lectureship** (JK-SET) conducted by the University of Kashmir in the year 2016.
- **Master of Computer Applications** (M.C.A), Department of Computer Science and IT, Baderwah Campus; the University of Jammu in the year 2009.
- **Bachelor of Sciences**, Govt. Gandhi Memorial Science College, the University of Jammu in the year 2006.
- **Schooling from Model Institute of Education & Research (MIER), Jammu** (2003 passout).

TEACHING EXPERIENCE

- Working as Senior Assistant Professor **Department of Computer Science, University of Kashmir** since 03rd March 2025.
- Worked as Assistant Professor **Department of Computer Science & IT, Baderwah Campus, University of Jammu** since 22nd Feb 2017 till 03rd March 2025.

RESEARCH EXPERIENCE

- Currently guiding two research scholars for their Ph.D. Thesis:
 - **Rishi Khajuria** titled “A Study of reinforcement learning based approaches to develop a framework for diagnosis of cervical cancer”.
Date of Registration: 26.02.2019
Percentage of work completed: Completed and Submitted
 - **Diksha Sambyal** titled “3D Reconstruction and Automatic Labelling of Whole Slide Pap-Smear Images using Machine Learning”
Date of Registration: 11.12.2020 Percentage of work completed: 85%
 - **Ankush Raj** titled “Development of a Machine Learning Model for the Segmentation of Regions of Interest in Obscured and Complex Pap-Smear Images of Cervical Cancer Cells” Date of Registration: 08.06.2023 Percentage of work completed: 50%
 - **Sumaiya Sabreen Mughal** allotted in 2025 at University of Kashmir

RESEARCH PROJECTS

Title: "Development of a Fully Automated Cervical Cancer Diagnosis and Severity Estimation System by Automatically Labelling the Cells in Whole Slide Images of Pap Smear Tests Using Deep Learning"

Funding Agency: Department of Biotechnology, Government of India

Fund Allocated: ₹12 lakhs

Duration of the Project: 1.5 years

REASEARCH EXPERIENCE (*Publications in Journals*)

- **PAP-Net: A Systematic Framework for Denoising Pap Smear Images**
Published in *Springer, SN Computer Science* (May 2025)
- **Recent Developments in Denoising Medical Images Using Deep Learning: An Overview of Models, Techniques, and Challenges**
Published in *Elsevier, Micron* (January 2024)
Impact Factor: 2.4
- **Review of Reinforcement Learning Applications in Segmentation, Chemotherapy, and Radiotherapy of Cancer**
Published in *Elsevier, Micron* (January 2024)
Impact Factor: 2.4

- **Recent Developments in Cervical Cancer Diagnosis Using Deep Learning on Whole Slide Images: An Overview of Models, Techniques, Challenges, and Future Directions**
Published in *Elsevier, Micron* (August 2023)
Impact Factor: 2.4
- **A Robust Deep Learning Approach for Accurate Segmentation of Cytoplasm and Nucleus in Noisy Pap-Smear Images**
Published in *MDPI, Computation* (August 2023)
Impact Factor: 2.2
- **Artificial Intelligence-Based Techniques for the Analysis of Body Cavity Fluids: A Review**
Published in *Springer Artificial Intelligence Review* (January 2021)
Impact Factor: 12
- **Segmentation of Cervical Cells for Automated Screening of Cervical Cancer: A Review**
Published in *Springer Artificial Intelligence Review* (June 2019)
Impact Factor: 12
- **Diagnosis of Diabetes Type-II Using a Hybrid Machine Learning-Based Ensemble Model**
Published in *International Journal of Information Technology, Springer* (2018)
- **Artificial Neural Network-Based Screening of Cervical Cancer Using a Hierarchical Modular Neural Network Architecture (HMNNA) and Novel Benchmark Uterine Cervix Cancer Database**
Published in *Neural Computing and Applications, Springer* (2017)
Impact Factor: 6
- **Novel Benchmark Database of Digitized and Calibrated Cervical Cells for Artificial Intelligence-Based Screening of Cervical Cancer**
Published in *Journal of Ambient Intelligence and Humanized Computing, Springer* (2016)
Impact Factor: 3.662
- **Screening of Cervical Cancer by Artificial Intelligence-Based Analysis of Digitized Papanicolaou-Smear Images**
Published in *International Journal of Contemporary Medical Research* (2017)
ISSN: 2454-7379
- **Hybrid Ensemble Learning Technique for Screening of Cervical Cancer Using Papanicolaou-Smear Image Analysis**
Published in *Personalized Medicine Universe, Elsevier* (March 2015)
ISSN: 0951-5666

- **Comparative Analysis of Machine Learning Techniques in the Prognosis of Type-II Diabetes**

Published in *AI & Society, Springer* (2015)

Impact Factor: 3

- **Intelligent Naïve Bayes Approach to Diagnose Diabetes Type-2**

Published in *International Journal of Computer Applications* (2012) ISBN: 973-93-80870-10-6

- **A Case Study of Colour Combination Issues in Various Websites**

Published in *International Journal of Computer Applications* (2012) ISBN: 973-93-80869-24-2

- **A Comparison of Deep Reinforcement Learning and Deep Learning for Complex Image Analysis**

Published in *Journal of Multimedia Information System* ISSN: 2383-7632

- **Detection of Rice Disease Using Bayes' Classifier and Minimum Distance Classifier**

Published in *Journal of Multimedia Information System* ISSN: 2383-7632

- **Detection of Security Attacks and Challenges of VANETs: A Literature Survey**

Published in *Journal of Multimedia Information System* ISSN: 2383-7632

REASEARCH EXPERIENCE (Publication & Presentation in Conferences)

- Research paper **presented and published** in the Proceedings “**Cervical Smear Analyzer (CSA): Expert System for identification of cervical cells in Papanicolaou smear test**” in National Conference on Recent Trends and Technologies in Data Science and Artificial Intelligence, Bhaderwah Campus University of Jammu August, 2016.
- Research paper **presented and published** in the Proceedings “**Analysis of Machine Learning and Statistics Tool Box (Matlab R2016) over Novel Benchmark Cervical Cancer Database**” National Conference on Recent Trends and Technologies in Data Science and Artificial Intelligence, Bhaderwah Campus University of Jammu August, 2016.
- Research paper **presented** on “**Artificial Intelligence based analysis of digitized papanicolaou-smear images for screening of cervical cancer**” at Digital Life Conference organized by BVICAM, New Delhi in December 2015.
- Research paper **presented and published** in the Proceedings “**Performance Evaluation of machine learning techniques for screening of cervical cancer**” in Computing for sustainable Global Development, at **BVICAM, New Delhi** Proceedings published by IEEE

Xplore, 2015, ISBN 978-9-3805-4415-1.

- Research paper **presented** and **published** in the Proceedings “**A model for privacy preserving in data mining using soft computing techniques**” in international conference Computing for sustainable Global Development, at **BVICAM, New Delhi** Proceedings published by IEEE Xplore, 2015, ISBN 978-9-3805-4415-1.
- Research paper **presented** and **published** in the Proceedings “**Application of Machine Learning techniques in diagnosis of medical disorders.**” in national conference on recent innovation and advancement in information technology (RIAIT2014) at BGSBU Rajouri on 26-27, November 2013.
- Research paper **presented** and **published** “**Cross Browsers Compatibility of E-government websites**” in 5th **national conference** on computing for nation development at **BVICAM, New Delhi** 10th-11th March 2011.

ADMINISTRATIVE EXPERIENCE

- Working as Coordinator, Center for Career Counselling, Coaching and Placement, University of Kashmir since 15.09.2025
- Working as Nodal Officer, Department in Computer Science-DIQA, university of Kashmir Since 20.03.2025
- Worked as In-charge Head of the Department in Computer Science and IT, Bhaderwah Campus, the University of Jammu from 16.08.2024.
- Worked as overall coordinator Four Year Undergraduate Program BCA program NEP-2020 at Bhaderwah Campus since its inception in 2022.
- Worked as In-charge Campus Library Bhaderwah Campus, the University of Jammu since April 2017.
- Worked as In-charge Assistant Registrar Bhaderwah Campus, the University of Jammu from June 2017 to February 2019.
- Organized 6 days Faculty Development Program on “**Real World Scientific and Numeric Computing Using Deep Learning with Python**” at Bhaderwah Campus in collaboration with iHUB DivyaSumpark, IIT Roorkee from 10th October, 2012 to 14th October, 2022.

- Organized 6 days Faculty Development Program on “**Data Analytics with Python**” at Bhaderwah Campus in collaboration with IIT Roorkee from 07th May, 2019 to 12th May, 2019.
- Organized 5 days Faculty Development Program on “**Pattern Recognition and Image Analysis**” at Bhaderwah Campus in collaboration with IIT Roorkee from 25th May, 2018 to 29th May, 2018.

PERSONAL DETAILS

Name:	Dr. Abid Sarwar
Date of Birth:	01 April 1985
Gender:	Male
Marital Status:	Married
Father's Name:	Late G.M Rather
Address:	House No 2, Lane No 3, Upper Plaoura, Janipur Jammu

(Dr. Abid Sarwar)