

DILIP KUMAR NAYAK

Assistant Professor & HoD,
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ACADEMIC PROFILE

An accomplished academic and researcher with 12+ years of professional experience, including eight years in higher education and four years as a Senior Software Engineer. Currently serving as the Head of the PG Department of Computer Science, Dhenkanal Autonomous College. I leverage a dual-perspective from the tech industry and academia to transform traditional learning into a hands-on, deployment-ready educational experience. My expertise spans Artificial Intelligence, Machine Learning, Deep Learning, and IoT. I am dedicated to fostering an environment of excellence, mentoring both faculty and UG/PG students in the execution of scalable, real-world technical projects.

EDUCATIONAL QUALIFICATIONS

- **PhD** (Continuing) from Utkal University
 - Thesis: Design of Smart Sensor based Assistance for Visually Impaired People
- **M.Tech (CS)** from University of Hyderabad (2011-2013)
 - Specialization: Image Processing, 3rd Topper
- **MCA** from Berhampur University (2007-2010), Topper
- **B.Sc (Physics)** from Science College, Hinjilicut (2004-2007), Aggregate Topper

TEACHING & ADMINISTRATIVE EXPERIENCE

Assistant Professor | [Dhenkanal Autonomous College]

[Continuing from November, 2017]

- Lead instructor for Machine Learning, IoT, Algorithm Design Techniques, Data Structures, Programming using C at the UG/PG levels.
- Implemented blended learning model to increase student engagement.
- Serving as HoD, CS, NAAC/IQAC coordinator, UGC Autonomy Coordinator, Website incharge, Biometric incharge and members of various statutory and non-statutory committees.

INDUSTRY EXPERIENCE

Senior Software Engineer | [One Convergence Devices Pvt. Ltd, Hyderabad] [August, 2013] –

[October, 2017]

- Involved in development of software and also in automation in Cloud Computing, Networking Domain

RESEARCH & PUBLICATIONS

Primary Research Interests: [AI], [ML], [DL], [Sensors], [Assistive Technology for Visually Impaired Users]

- D. K. Nayak and C. Bhagvati, "A threshold-LSB based information hiding scheme using digital images," 2013 4th International Conference on Computer and Communication Technology (ICCCCT), 2013, pp. 269-272, doi:[10.1109/ICCCCT.2013.6749639](https://doi.org/10.1109/ICCCCT.2013.6749639). [Scopus]
- D. K. Nayak and C. Bhagvati, "A new HSI based filtering technique for impulse noise removal in images," 2013 Fourth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG), 2013, pp. 1-5, doi:[10.1109/NCVPRIPG.2013.6776159](https://doi.org/10.1109/NCVPRIPG.2013.6776159). [Scopus]

AWARDS & HONORS

- Topper in MCA (Gold Medalist) from Berhampur University in the year 2010.
- Topper (Aggregate) in [B.Sc](#) (Physics), ranked 4th topper at the University level in B.Sc (Physics) in the year 2007.
- Quality Award from One Convergence Devices Pvt. Ltd [2016]

SKILLS & CERTIFICATIONS

- **Software:** [C, C++, Java, Python, HTML, CSS, Javascript, PHP, NumPy, Pandas, Android App development]
- **Project:** [Design, Development, Implementation, Automation, Testing]
- **LMS Proficiency:** [Google Classroom]
- **Certifications:**
 - Certification on "Introduction to Internet of Things" NPTEL, May 2023
 - Certification on "Machine Learning Specialization", Stanford University & DeepLearning.AI (Through Coursera), Nov 2022.
 - Certification on "Introduction to Data Science in Python University of Michigan (Through Coursera) in September, 2020.
 - Certification on "Introduction to Artificial Intelligence" from IBM (through Coursera) in October, 2020.
 - Certification on "Introduction to IOT from University of California in 2020.
 - Qualified both NET & JRF in Computer Science and Applications in March, 2013.
 - Achieved a course completion certificate with distinction on "Image & Video Processing" from Duke University, USA (through Coursera) in Feb, 2013.
 - Qualified UGC-NET in Computer Science and Applications for Lecturership in Nov, 2012.
 - Achieved a course completion certificate on "Algorithms Design & Analysis" with 91.2% from Stanford University, USA (through Coursera) in June, 2012.
 - Qualified GATE Computer Sc. & IT with 95.6 Percentile in the Year 2011