



JOGINPALLY B.R. ENGINEERING COLLEGE

(UGC AUTONOMOUS)

Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad,

Accredited by **NBA (ECE & EEE)** and **NAAC** with **A+** Grade,

Recognized under Section 2(f) of UGC Act.1956, & ISO 9001:2015 Certified.

Bhaskar Nagar, Yenkapally (V), Moinabad (M), P.O. Himayath Nagar, R.R. District, Hyderabad – 500 075.

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RESEARCH CENTRE OF COMPUTER SCIENCE AND ENGINEERING

Specialization: Artificial Intelligence & Data Analytics | M.Tech (CSE)



RESEARCH THRUST AREAS

4 Core Pillars



Artificial Intelligence & Machine Learning

Intelligent models, deep learning architectures, automated reasoning, and AI-driven solutions for predictive decision-making.



Data Mining & Knowledge Discovery

Techniques for extracting hidden patterns, trend analysis, and actionable insights from massive unstructured datasets.



Advanced Data Analytics

Statistical modeling, predictive algorithms, time-series forecasting, and computational visualization dashboards.



Cyber Security & Digital Forensics

Threat intelligence, network security protocols, privacy-preserving computing, and digital forensic investigation methods.



LABORATORY & SOFTWARE INFRASTRUCTURE

High-performance computing workstations with high-speed internet & specialized software suites:

AI, ML & Data Analytics

TensorFlow PyTorch Keras Scikit-learn OpenCV Pandas
Tableau WEKA

Programming & Databases

Python Java C/C++ VS Code Jupyter MySQL MongoDB
PostgreSQL

Security, Cloud & Integrity

Wireshark Nmap Google Colab AWS Cloud Git/GitHub
Turnitin



RESEARCH OUTPUT & INTELLECTUAL PROPERTY

25+

JOURNAL PAPERS

18+

CONFERENCES

10+

BOOK CHAPTERS

05+

PATENTS FILED



GLOBAL IMPACT & OUTREACH

- **Academic Collaborations:** Expanding global outreach through international joint research initiatives and academic alliances.
- **Global Conferences:** Regular dissemination of research at IEEE, Springer, and Scopus-indexed flagship conferences.
- **Professional Bodies:** Active engagement with global scientific and professional engineering communities.



STUDENT & FACULTY DISTINCTION

- **Paper Presentations:** Active participation and best paper awards in international symposia and webinars.
- **Professional Certifications:** Advanced research certifications in AI/ML, Cloud Computing, and Cybersecurity.
- **Skill Enhancement:** Continuous exposure to cutting-edge research methodologies and global technical forums.

Goal: Fostering excellence in doctoral research and industry-driven innovation under JNTUH recognition.



FUNDED RESEARCH & GRANTS

Active submission and pipeline for research grants across premier funding bodies (DST, SERB, AICTE, and Industry Partners).