

# About MJCET

Established in 1980, Muffakham Jah College of Engineering and Technology is a premier institute of its kind, offering four year B.E. degree courses in 7 Engineering branches, namely, Civil Engineering, Computer Science Engineering, Computer Science Engineering (Artificial Intelligence), Computer Science Engineering (Artificial Intelligence & Machine Learning), Computer Science Engineering (Data Science), Electronics and Communication Engineering, Mechanical Engineering and four post graduate courses in M.E. (CAD/CAM), M.E. (Structural Engineering), M.E. (Embedded Systems & VLSI Design), M. Tech. (Computer Science) of two years duration. The College is a Minority Educational Institution affiliated to Osmania University and is approved by the AICTE and accredited by the NAAC with Grade A+ and four UG programs Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering and Mechanical Engineering are accredited by NBA for a period of 3 years from 2024-25 to 2026-27 up to 30-6-2027. Recently, MJCET was granted Autonomous Status by UGC for the period 2025-26 to 2034-35. This milestone empowers the institution to introduce innovative curricula, modern evaluation methods, and flexible academic administration, creating a conducive environment for organizing advanced Faculty Development Programs (FDPs) and research-driven

# About CSED

The Computer Science Engineering Department (CSED), established in 1986, continues to serve as a crucial resource center at regional, national, and international levels for the advancement of computing and its applications. As an NBA-accredited department for a period of three years (2025-2027) at Muffakham Jah College of Engineering and Technology, CSED provides students with the knowledge, technology, and skills comparable to those offered by any esteemed institution. The CSED offers Bachelor of Technology and Master of Technology programs, equipping students for careers that emphasize innovation and problem-solving through computational methods and technologies. The CSED is one of the research centres of Osmania University for PhD candidates. Currently, four supervisors have been approved by Osmania University. The Department of Computer Science and Engineering (CSE) is distinguished for its expertise in Theoretical Computer Science, High-Performance Computing, Artificial Intelligence, Data Science, Networking, Image Processing, Computer Vision, and Cyber Security. Students in the Computer Science and Engineering Department (CSED) actively participate in a variety of national and international hackathons, coding competitions, and IEEE events, where they demonstrate their technical proficiency, problem-solving capabilities, and innovative thinking. The faculty within CSED are extensively involved in high-quality research, contributing scholarly articles to SCOPUS-indexed journals and conferences. Their work in emerging fields of computing and technology underscores the department's emphasis on research. Furthermore, both faculty and students engage in patent filing, highlighting the department's commitment to innovation, intellectual property development, and advancements in cutting-edge technology

# About FDP

6- Day Offline ATAL Online Faculty Development Program (FDP) on "Explainable and Responsible AI for Healthcare: From Medical Imaging to Generative AI Systems" aims to provide comprehensive knowledge of emerging AI technologies in healthcare. The six-day program covers Explainable AI, Generative AI, Machine Learning, and Deep Learning for disease detection and medical imaging. Participants will explore foundation medical large language models and optimized transformer architectures. The FDP also introduces feature engineering and classification approaches for healthcare data. Advanced topics such as GANs and diffusion models for medical imaging will be discussed.

The program includes hands-on sessions on AI for disease detection and healthcare chatbots using Dialogflow. Participants will gain exposure to real-world healthcare applications and deployment challenges of Generative AI systems. Special emphasis will be placed on ethical, responsible, and safe AI practices. Designed for faculty, researchers, and industry professionals, the FDP offers both theoretical and practical learning. By the end, participants will be equipped to develop explainable and scalable AI solutions for healthcare.

# Objectives

The ATAL Online Faculty Development Program (FDP) on "Explainable and Responsible AI for Healthcare: From Medical Imaging to Generative AI Systems" aims to empower faculty members with the knowledge, skills, and expertise required to design, develop, and deploy trustworthy, explainable, and responsible AI solutions in healthcare. The program focuses on emerging techniques in Explainable Artificial Intelligence, Generative Artificial Intelligence, and Medical Image Analysis, while enhancing participants' teaching, research, and industry collaboration capabilities.

# Outcomes

The FDP will enhance participants' knowledge and skills in Generative AI for healthcare and its real-world applications. It will support the development of curriculum and courses in emerging AI technologies for healthcare. The program will promote research collaborations and strengthen industry partnerships. It will also improve teaching and learning experiences through practical exposure and hands-on sessions. Participants will be encouraged to explore innovation and research opportunities in healthcare AI. Overall, the FDP aims to foster entrepreneurship and the development of impactful AI-based healthcare solutions.



# Muffakham Jah

College of Engineering and Technology, Hyderabad.  
An Autonomous Institute | Affiliated to Osmania University



# ATAL FDP

on

# Explainable & Responsible AI for Healthcare: From Medical Imaging to Generative AI Systems

6<sup>th</sup> -11<sup>th</sup> JULY- 2026



Organized by  
Department of CSE  
Muffakham Jah College of Engineering and Technology,  
(Autonomous)  
Affiliated to Osmania University,  
Accredited by NBA, NAAC A+, Grade, Banjara Hills, Hyderabad, Telangana State, India.

[www.mjcollege.ac.in](http://www.mjcollege.ac.in)

## PARTICIPANTS

- Faculty Members
- Research Scholars
- Industry Professionals
- P.G Students from AICTE approved Institutions

## REGISTRATION

Online Through ATAL Portal

<https://atalacademy.aicte-india.org/Login>

## TEST AND CERTIFICATE

- An assessment test shall be conducted in online mode (May be through ATAL Portal) during the last session at the end of the FDP.
- Minimum 60% score is required to get Certificate
- Session wise attendance shall be recorded.
- Minimum 80% attendance is required to get Certificate

## CONTACT US

### Coordinator

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### Co-Coordinator

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## CHIEF PATRON

**Janab Zafar Javeed,**  
Honorary Secretary, SUES

## CHIEF ADVISOR

**S. Srinivasa Rao,**  
Principal,  
MJCET (Autonomous)

## ADVISOR

**Prof. Syed Ferhathullah Hussainy**

Dean (Student's Affairs)  
MJCET (Autonomous)

**Prof. Mohd. Hamraj**  
Dean (Academics)  
MJCET (Autonomous)

## FDP COORDINATOR

**Dr. Syed Shabbeer Ahmad**  
Professor & Head, CSED,  
MJCET (Autonomous)

## FDP CO-COORDINATOR

**Dr. Syeda Fouzia Sayeedunnisa**  
Associate Professor & Associate  
Head, ITD  
MJCET (Autonomous)

## FDP TOPICS

1. Generative AI for Medical Imaging: Revolutionizing Healthcare Diagnostics.
2. AI Meets Medicine: Developing a Foundation Medical LLM for Disease Detection.
3. Machine learning approaches for Classification And Feature Engineering.
4. Challenges of deploying Gen AI Healthcare system in production.
5. Ethical, Responsible, and Safe AI in Healthcare.
6. LLMs in Healthcare: Application, Challenges and Future Prospects.
7. Doctor AI: Building Intelligent Healthcare Chatbots with Dialog flow.
8. AI-Powered Vision: Generating the Future of Medical Imaging with GANs & Diffusion Models.
9. Application of Generative AI in Healthcare: A Deep Dive into Synthetic Data Generation.
10. Research Methodology for Generative AI in Healthcare

## RESOURCE PERSONS

Resource Persons are from Industry, IIIT Hyderabad, NITs and Academia.

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**NO REGISTRATION FEE**

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