ABOUT THE INSTITUTION

Vision: Striving for a symbiosis of technological excellence and human values.

Mission: To arm young brains with competitive technology and nurture holistic development of the individuals for a better tomorrow

Founded in 1981 by Vasavi Academy of Education, Vasavi College of Engineering (VCE) represents a rich tradition of excellence in technology-based education. A premier-league institution among the affiliates of Osmania University, VCE owes its vision to Sri Pendekanti Venkata Subbaiah, a veteran statesman of Independent India. VCE has been conferred with Autonomous Status by the University Grants Commission (UGC), New Delhi and Osmania University, Hyderabad for a period of six years with effect from the Academic Year 2014- 15, for all the UG and PG Programmes. The College is implementing Choice Based Credit System (CBCS). Accredited by NAAC with A++ Grade.

ABOUT THE DEPARTMENT

Vision: To be a center for academic excellence in the field of Computer Science and Engineering education to enable graduates to be ethical and competent professionals.

Mission: To enable students to develop logic and problem solving approach that will help build their careers in the innovative field of computing and provide creative solutions for the benefit of society.

The Department of Computer Science & Engineering was started in the year 1994 offering a 4-Year B.E. course with an annual intake of 180 students and offers 2 year M.Tech .course with an annual intake of 12 students. The department has well qualified and experienced faculty. The students are placed through campus recruitment in reputed organizations Microsoft, Accolite, Oracle, Pega Systems, Adtran, NCR, Deloitte, Qualcomm, Servicenow , Infosys, Cognizantetc. Osmania University has identified the department as a Research Center. Two Professors in the department are recognized as research supervisors for guiding Ph.D. students. We also offer value added courses in the form of CISCO Local academy to meet the contemporary market demands. As apart of continuing education, the department organizes various guest lectures, seminars and workshops, Conferences by inviting people from Academia & Industry.

Organizing Committee

Chief Patrons
Sri P. Ram Mohan Rao, President, VAE
Sri M. Krishna Murthy, Secretary, VAE

Patron
Sri P. Balaji, CEO,VCE

General Chair
Dr. S.V. Ramana, Principal, VCE

Convener
Dr. T. Adilakshmi
Professor & HEAD
Department of CSE, VCE

Coordinators
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Program Coordinator
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Dr. R.Sateesh Kumar,
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Members
1. Dr. Nagaratna P Hegde, Professor
2. Dr. R.Santosh Kumar, Assoc. Professor
3. T.Nishitha , Asst.Professor
4. P. Narsaiah, Asst.Professor
5. T.Sushmitha, Asst.Professor

Important Dates:

Last Date for submission: 14/11/2024
Date of FDP Approval   : 15/11/2024

ONE WEEK NATIONAL LEVEL
AICTE TRAINING AND LEARNING (ATAL) ACADEMY PROGRAM

**Faculty Development Program
On**
Deep Learning approaches For Intelligent Recommendation Systems

18th to 23rd November , 2024

Organized by
Department of Computer Science and Engineering
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
ACCREDITED BY NAAC WITH 'A++' GRADE
Phone: 040-23146003, 23146050 (D)
Fax : 23146090
Website: www.vce.ac.in

About ATAL Academy

AICTE Training and Learning (ATAL) Academy is established with the vision " To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed to the development of quality technical education in the country by initiating various schemes
launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need to train the young generation in the skill sector and have faculty & technicians be trained in their respective disciplines. Training is required and increasing the knowledge and skill of studies to make them more employable to acquire global competencies.

About the FDP

The Faculty Development Program (FDP) on "Deep Learning Approaches for Intelligent Recommendation Systems" focuses on equipping educators and professionals with advanced skills in leveraging deep learning techniques for creating effective Recommendation Systems. The program covers key concepts such as neural networks, collaborative filtering, content-based filtering, and hybrid models. Participants will explore how deep learning enhances recommendation accuracy by analyzing user behavior, preferences, and contextual data. The FDP includes hands-on sessions, case studies, and practical sessions to build and deploy intelligent recommendation systems using popular deep learning frameworks like TensorFlow and PyTorch. At the end of the program, attendees will be proficient in designing, implementing, and evaluating recommendation algorithms that can drive personalized user experiences and business growth. This FDP aims to bridge the gap between theoretical knowledge and practical application, fostering innovation in Recommendation System's Technology.

Objectives of FDP

- To provide participants with a solid understanding of the fundamentals of Deep Learning
- To Introduce different types of recommendation systems (RS), such as collaborative filtering, content-based filtering, and hybrid approaches.
- To implement aspects, including data pre-processing, model training, and evaluation metrics specific to RS
- Address the challenges of handling sparse and high-dimensional data in recommendation systems.

Major Course Contents

- Introduction to Recommendation Systems
- Fundamentals of Deep Learning
- Deep Learning Architectures for Recommendation Systems
- Convolutional Neural Networks (CNNs) for Recommendation Systems
- Recurrent Neural Networks (RNNs) for sequence-based Recommendation Systems
- Attention mechanisms for personalized Recommendation Systems.
- Techniques for dealing with sparse and noisy data in Recommendation Systems.
- Feature Engineering for Recommendation tasks
- Evaluation Metrics for Recommendation Systems
- Scalable architectures for large-scale Recommendation Systems
- Real-world Applications and Case Studies
- Implementing recommendation algorithms using deep learning frameworks (e.g., TensorFlow, PyTorch, Keras etc.)

Location & Transport

The college is located 8 kms from Mehdipatnam (on the way to Gandipet) near Ibrahimbagh bus stop. BUS Route Nos (from Mehdipatnam) : 220V, 6B, 505, 220J, 120M

Registration Information

- Registration must be through ATAL portal.
- No Registration Fee
- Maximum no. of participants:50
- First signup at https://atalacademy.aicte-india.org/
- After login, fill general details. Select the FDP from the link :
  https://atalacademy.aicte-india.org/participant/workshop
- Any one Identity proof (JPEG File) and NOC from present organization (PDF file) need to be submitted by the participants.

Who should Attend

Assistant Professors/Associate Professor/Ph.D. Scholars/PG students from AICTE approved Institutions.

Mode of Delivery: Offline

Requirement to get Certificate

Candidates would be eligible to receive a certificate up on achieving **at least 70% cumulated weightage** in the *following aspects in the weightage mentioned.*

1. Attendance – minimum 80% attendance essential. 100% attendance - (individual) - weightage 20%

2. One assessment, - combination of MCQs/short answer type/reasoning based, etc. -(Individual) - weightage10%

3. 2 Page Article Summary/per Team - (Team & Individual)- - weightage30%

4. Output of practical sessions -(Individual)-weightage15%

5. Report/outcome of Industrial visit- (Team) at the last session - weightage10%

6. Reflection Journal - (Individual) - at the last session - weightage15%

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Resource Persons

- Dr. M. Srinivas, Assistant Professor, NIT-Warangal
- Dr. Maunendra Desarkar, Associate Professor, IIT Hyderabad
- Dr. Manish Singh, Associate Professor, IIT Hyderabad
- Mr. Veerendra Thati, Data & AI Architect, Microsoft
- Mr.R. Phani Bhushan, Scientist G, ADRIN
- Miss Pratima Mangena, Technical Program Manager, Microsoft
- Dr.Nagesh Bhatt, Assistant Professor, NIT-AP