

## Faculty Profile

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### **About me:**

Being an Associate Professor and HoD at the Department of MCA, NIE, Mysuru , I, Dr. Ananth G S, bring over 16 years of academic experience complemented by 3 years of software industry expertise, positioning myself uniquely at the intersection of theoretical computer science and practical technology implementation.

My research interests span multiple domains within artificial intelligence and machine learning, with particular focus on recommender systems, natural language processing, and explainable AI. My current research explores the integration of compact large language models (using LoRA and QLoRA fine-tuning techniques) with explainable AI frameworks (SHAP, LIME) for personalized conversational recommendations. I have also contributed to research on emotion-aware content recommendation systems, cyberbullying detection, and contextual bandits for debiasing in recommendation algorithms.

My technical expertise encompasses deep learning architectures (including GANs, VAEs, and diffusion models), GPU computing with CUDA and parallel processing frameworks, and full-stack web development. I maintain an active involvement in curriculum development, student guidance, and research mentorship for MCA students. My work extends to educational technology, where I have developed innovative learning applications and materials that bridge complex technical concepts with accessible pedagogy.

Beyond my primary research in AI/ML, I have contributed to operations research (aircraft routing optimization combining Deep Q-Networks with Column Generation), quantum-inspired feature engineering for image processing, and music information retrieval systems. I actively publish in Scopus-indexed journals and have delivered workshops on AI integration in software development lifecycle and deployable intelligent systems.

As an academic professional, I am committed to advancing both scholarly literature and practical technology applications, with a vision of contributing meaningful innovations that address real-world challenges through rigorous research methodology and ethical AI practices.

### **Qualification:**

BSc (Mysore University - 2005), MCA (VTU, Belagavi - 2008), Ph.D. (VTU, Belagavi - 2023)

## **Courses Taught:**

### **PG Courses (recent ones):**

- 1. Introduction to Machine Learning**
- 2. Introduction to Python**
- 3. Introduction to Generative AI**
- 4. Big Data and Analytics**

## **Publications:**

### **Journal papers:**

- 1. Title:** A Conversational Healthcare Companion in Kannada **Authors:** Jayalakshmi Raju; K. Rohitaksha; K.S. Rekha; Bhat Geetalaxmi Jairam; M. Narender; Shashank Dhananjaya; Ananth G.S. **Journal/Conference:** Engineering, Technology & Applied Science Research (etasr.com) **Year:** 2025 | **Volume:** 16, **Number:** 1 | **Pages:** 32377–32383
- 2. Title:** A Spatial-Temporal Attention-Based Multimodal Framework for Alzheimer's Detection Using Deep Neural Networks **Authors:** Sonika Sharma D.; Jeevitha M.; Bhat Geetalaxmi Jairam; Latha Anuj; Ananth G.S.; Divya S.J.; Mangala R. **Journal/Conference:** Ingénierie des Systèmes d'Information — IIETA **Year:** 2025 | **Volume:** 30, **Number:** 11 | **Pages:** 2815–2824
- 3. Title:** Brain Tumor Detection of its Stages and Treatment Advice Techniques using LBP and LPC **Authors:** K. Raghuv eer; Anusha C.M.; Ananth G.S. **Journal/Conference:** International Journal of Innovative Research in Computer and Communication Engineering **Year:** 2025 | **Volume:** 13, **Number:** 9 | **Pages:** 15293–15300
- 4. Title:** Smart Translation for Physically Challenged People Using Machine Learning **Authors:** Nuthan R.; Ananth G.S. **Journal/Conference:** International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET) **Year:** 2023 | **Volume:** 12, **Number:** 9 | **Pages:** 11600–11603
- 5. Title:** A Novel and Hybrid Approach of an Indian Demographic Movie Recommender System **Authors:** Ananth, G.S.; Raghuv eer, K.; Dayananda, R.; Kashyap, R. **Journal/Conference:** Open Access Library Journal **Year:** 2020 | **Volume:** 7, **Number:** 7

### **Conference papers:**

- 1. Title:** Fusion of Various Sentiment Analysis Techniques for an Effective Contextual Recommender System **Authors:** Gouri S. Ananth; Dr. Raghuv eer; Dr. S. Vasanth Kumar **Journal/Conference:** Proceedings of the 16th Innovations in Software Engineering Conference **Year:** 2023
- 2. Title:** A Context-Aware Recommender System for Amazon Products Recommendations **Authors:** Ananth G.S.; K. Raghuv eer **Journal/Conference:** International Conference on Innovative Advancements in Engineering and Technology **Year:** 2022
- 3. Title:** A Movie and Book Recommender System Using Surprise Recommendation **Authors:** Ananth Gouri S.; Dr. K. Raghuv eer **Journal/Conference:** Proceedings of the

4th International Conference: Innovative Advancement in Engineering & Technology (IAET) **Year:** 2020

4. **Title:** A Novel Approach for Music Recommendation System Using Matrix Factorization Technique **Authors:** Ananth G.S.; Dr. K. Raghuv eer **Journal/Conference:** International Conference on Machine Intelligence and Signal Processing — Springer, Singapore **Year:** 2019 **Pages:** 13–25
5. **Title:** A Novel Approach of Predicting the Music Genre through Classification for the FMA Dataset **Authors:** Ananth G.S.; Dr. K. Raghuv eer **Journal/Conference:** 3rd Asia International Conference on Machine Learning and Computing **Year:** 2019
6. **Title:** Preference Weighted Restricted Boltzmann Machines for Cold Start Recommendations **Authors:** Ananth, G.S.; Raghuv eer, K.; Kumar, S. Vasanth
7. **Title:** A Novel Approach of Creating a Self Owned 'Dropbox' using Open Source Software **Authors:** Ananth, G.S.; Raghuv eer, K. **Journal/Conference:** 2017 International Conference on Current Trends in Computer, Electrical, Electronics and Communication (CTCEEC) — IEEE **Year:** 2017 | **Pages:** 104–108
8. **Title:** A Novel Comparison between A Lollipop for Best Features and S **Authors:** Raghuv eer, K.; Ananth, G.S. **Year:** 2011

#### **Book chapters:**

1. **Title:** Blockchain for Military Applications: Opportunities, Challenges, and Its Applications **Authors:** Sudeep, J.; Shivashankara, S.; Ananth, G.S.; Girish, S.C. **Journal/Conference:** Artificial Intelligence for Military Applications with Blockchain — CRC Press **Pages:** 72–101

#### **Other achievements:**

**Member of Professional Bodies / Societies: ACM and IEEE**

#### **Awards & Honors:**

1. **Mission 10X Certificate in Teaching and Learning by WIPRO in 2010**
2. **High Impact Teaching Skilled Teacher by Dale Carnegie Training, Product & Trainer**
3. **"Faculty of the Year - 2025" award from the Department of MCA.**
4. **Government of Karnataka scholarship for "Top 100 students" award in 2000.**
5. **Awardee of Pratibha puraskar in 2000.**
6. **I am also a Tutor / Educator – teaching students at: - JSS – Institute of Differently abled**
7. **Have taught "CUDA programming" to students at SJBIT, Bengaluru in November 2025.**
8. **Online Tutor for "VTU- CDOE" in the year 2025-2026.**

### **Content Writing and Technical writing:**

1. I am a regular writer at [www.medium.com](http://www.medium.com) and also have my blog at [anathgs4geeks.blogspot.in](http://anathgs4geeks.blogspot.in)
2. I am also an active FOSS developer – working at various levels of Open Source software and tools.

### **Handles and other information:**

1. Medium.com: ananthgouri
2. Google Scholar: <https://scholar.google.com/citations?user=0MR6MQUAAA>
3. LinkedIn: <https://www.linkedin.com/in/dr-ananth-g-s-1b06356a/>