

## Curriculum Vitae

**Name :** D. V. Janardhan Rao

**Address :**

*Dept :* Room no-308, +91-05122597595, Dept of Computer Science, IIT Kanpur.

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**Date of Birth :** 28 May, 1983

**Education :**

- **Indian Institute of Technology Kanpur**
  - M.Tech, Computer Science & Engineering (CPI 7.71/10)
- **Andhra University College of Engineering**
  - B.Tech, Computer Science & Engineering ( 75.71%), 2004.

**Research Interests :**

Data Mining, Web Mining, Machine Learning, Pattern Recognition, Rough Set Theory Applications

**Publications :**

- D.V.Janardhan Rao and Pabitra Mitra : **A Rough Association Rule based Approach for Class Prediction with Missing Attribute Values** , *Proceedings of Second Indian International Conference on Artificial Intelligence ( IICAI'05 )* , Pune, December 2005.  
\*\*\* Considered for publication in a special issue for the Web Intelligence and Agent systems : An International Journal published by IOS Press.
- D.V.Janardhan Rao, Mohua Banerjee and Pabitra Mitra : **Object Extraction in Gray-scale Images by Optimizing Roughness Measure of a Fuzzy Set** , *International Conference on Pattern Recognition and Machine Intelligence ( PReMi'05 )* , *Lecture Notes in Computer Science, Springer-Verlag* , Kolkata, December 2005.
- D.V.Janardhan Rao, T.V.Prabhakar, Jayanta Chattarjee and M.D.Singh : **A Topic Map driven Portal for Agriculture Information** , *17th International Conference on IRMA ( IRMA 2006 )* , Washington D.C, USA, May 2006.

**Under Preparation :**

- Deepanjan Kesh and D.V.Janardhan Rao : **Scaling Data Mining and Machine Learning Algorithms for Large Datasets using Approximate Sufficient Statistics** ( *will be submitted to Machine Learning Journal* )

- D.V.Janardhan Rao, Mohua Banerjee and Pabitra Mitra : **Roughness Measure of a Fuzzy Set: A Perspective for some Pattern Recognition Problems** , ( *extension of PReMi'05 conference paper will be submitted to Pattern Recognition Letters Journal* )

#### Masters Dissertation work :

I am working on *Semantic Web Search based on Topic Maps* under the supervision of Prof. T. V. Prabhakar

#### Bachelors Dissertation work :

*Title : Rough Sets as a Framework for Data Mining*  
*Supervisor : Prof. M.N.Seetaramanath*

#### Research Experience :

- *Research Assistant*  
**Randomised Algorithms for Document Finger-printing** ( Aug'04 - Dec'04 )  
*Supervisor : Dr. Sumit Ganguly, Department of Computer Science*
- **Development of OCR System for Devanagiri Script** ( Jan'05 - May'05 )  
*Supervisor : Visiting faculty Prof. B.B.Choudhari, IEEE Fellow.*
- **A Rough Association Rule based Approach for Class Prediction with Missing Attribute Values** ( Oct'04 - May'05 )  
*Supervisor : Dr. Pabitra Mitra, Department of Computer Science*
- **Object Extraction in Gray-scale Images by Optimizing Roughness Measure of a Fuzzy Set** ( Jan'05 - Jun'05 )  
*Supervisor : Dr. Mohua Banerjee, Maths Dept and Dr. Pabitra Mitra*
- **Scaling Data Mining and Machine Learning Algorithms for Large Datasets using Approximate Sufficient Statistics** ( Jul'05 - till date )  
with Deepanjan Kesh Ph.D student, Computer Science Dept, IIT Kanpur.
- **Privacy Preserving Schemes for SQL Operations** ( Jul'05 - till date )  
Independent work
- **M.Tech Thesis : Semantic Web Search based on Topic Maps**  
*Supervisor : Prof. T. V. Prabhakar (Jul'05-till date)*
- *Senior Project Research Assistant*  
**Digital Ecosystem for Agriculture and Rural Livelihood Project : DEAL**  
Media Lab Asia Project.( Aug'05 - till date )  
*Supervisor : Prof. Jayanta Chatterjee, IME Dept and Prof. T. V. Prabhakar*

#### Professional Activities :

- Member of the research Group On Learning and Discovery ( GOLD ) at IIT Kanpur headed by Dr. Pabitra Mitra.
- Member of the research group on QUAntum Computing at IIT Kanpur ( QUACK ) headed by Dr. Debabrata Goswami.

### Academic Achievements :

- Recipient of **Sir. C.V.Raman Educational award** for the year 1998.
- Secured 53rd Rank in **APRJC Entrance examination** 1998.
- Secured 319th Rank in Andhra Pradesh State Engineering entrance examination **EAMCET 2000**
- Scored 99 out of 100 in Mathematics paper of **EAMCET 2000**
- Secured 99.79 % ile AIR 75 in **GATE 2004**

### Teaching Experience :

- **Teaching Assistant** for the course CS365 Artificial Intelligence Programming  
*Instructor : Dr. Pabitra Mitra ( Spring 2004-2005 )*
- **Instructor** for the C Programming course offered by the Programming Club in conjunction with Student Placement Office ( Fall 2005-2006 )

### Skill Set :

- **Programming Languages** : C, C++
- **Scripting Languages** : Shell scripts, Awk scripts
- **Tools** : LEX, YACC, LaTeX, CVS
- **Operating Systems** : Unix, Linux, Windows NT/XP
- **Databases** : Oracle, MS Access
- **Miscellaneous** : Well-versed with Unix internals

### Extra-Curricular Activities :

- I have been professionally playing cricket for the past 10 years at various levels like U-14, U-16 and U-19 .
- I am an active volunteer of **Asha - for education** Kanpur chapter and **Prayas** at IIT Kanpur.

### References :

- **Dr. Pabitra Mitra**  
*Assistant Professor*  
*Department of Computer Science and Engineering*  
*Indian Institute of Technology, Kanpur*  
*email : pmitra@iitk.ac.in*
- **Dr. Mohua Banerjee**  
*Assistant Professor*  
*Department of Mathematics and Statistics*  
*Indian Institute of Technology, Kanpur*  
*email : mohua@iitk.ac.in*

- **Prof. T. V. Prabhakar**

*Director of Research, Media Lab Asia  
Department of Computer Science and Engineering  
Indian Institute of Technology, Kanpur  
email : [tvpr@iitk.ac.in](mailto:tvpr@iitk.ac.in)*

- **Prof. M. N. Seetaramanath**

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Andhra University College of Engineering, Visakahapatnam  
email : [mns\\_nath@yahoo.co.in](mailto:mns_nath@yahoo.co.in)*

For publications, detailed information on various projects , go through my homepage  
URL : [www.cse.iitk.ac.in/users/dvjrao](http://www.cse.iitk.ac.in/users/dvjrao)

( D. V. Janardhan Rao )