

Curriculum Vitae

Dr. Akshansh Gupta

School of Computational Integrative Sciences

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Personal Information

Disability -Cerebral Palsy (Orthopedic)

Sex: Male

D.O.B.- 23-02-1983

Nationality: Indian

Marital Status: Single

Permanent Address -

S/O Sri Amarnath Gupta

Street: Dharnidharpur

Locality: Aahiyapur

P.O.: Sadar Bazar

Jaunpur, Uttar Pradesh- -222001

Current Status: Post-Doctoral fellow (as **principle investigator**) under the scheme of **Cognitive Science Research Initiative** (CSRI) from the *Department of Science and Technology (DST), Ministry of Science and Technology, Government of India*, with project entitled “**Identification of EEG signature for different mental states in School of Computational Integrative and Science, Jawaharlal Nehru University, New Delhi.**”

Event Organized: *Symposium on Applications of Pattern Recognition & Machine Learning in Medical Science* on Dated 18th September 2017, at Jawaharlal Nehru University, New Delhi-110067.

Work Done: As a Research Assistant at School of Computational Integrative and Science, Jawaharlal Nehru University, New Delhi.

Reference:

- Prof R.K Agrawal (SC & SS, JNU New Delhi India 110067), e-mail: rkajnu@gmail.com, contact: 9810115033.
- Prof S. J. Minz (SC & SS, JNU New Delhi India 110067), e-mail: sona.minz@gmail.com, contact: 9868807594.
- Prof Karmeshu (SC & SS, JNU New Delhi India 110067), e-mail:

karmeshu@mail.jnu.ac.in, contact: 9968284874.

- Prof Anirban Chakraborti (SC & IS, JNU New Delhi India 110067), e-mail: anirban.chakraborti@gmail.com contact: 9560812499
- Dr. Kalpana Bhargava (DIPAS Lab, DRDO, New Delhi, India), e-mail: kalpanab2006@gmail.com contact: 9899198336.

Career Statement

- Wish to develop a system which helps physically challenge person to operate computer by using links between natural neurons to artificial neurons.
- My PhD is multidisciplinary in nature and comes under innovative area of research.

Area of Interest

- Pattern Classification
- Data Mining

Educational Qualification

- Certificate in “*Data Scientist Toolbox*” course offered by Johns Hopkin University through online portal **Coursera**,
- Ph.D. in “*Performance Enhancement of Mental Task Classification: A Study of Combination of Feature Extraction and Selection Methods*” under the supervision of Prof R K Agrawal from SC&SS, JNU, New Delhi,
- M. Tech [7.32 CGPA] (2010) in “*Performance Evaluation of Classifiers using Feature Extraction with Burg's Method for Mental Task Classification*” SC&SS, New Delhi, India.
- B. Tech [62.09%] (2006) in Computer Science & Engineering from V.B.S. Purvanchal University, Jaunpur, U.P. India
- Intermediate [56.6%] (2000) from Nagar Palika Inter College, Jaunpur, UPHSB, ALLAHABAD.
- 10th Board [65.3%] (1998) from Nagar Palika Inter College, Jaunpur, UPHSB, ALLAHABAD.

Achievements:

- Got Senior Research Fellowship (SRF) from **Council of Scientific and Industrial Research(CSIR)**, India, 2012
- Got National Eligibility Test (NET) Certificate for teaching in Computer Science from **University Grant Commission (UGC) India**, Year: June, 2012 Roll Number: **17870555**, Electronic Certificate Number : **121055011**
- Got Student Travel Award from one of the most prestigious conference in the field of Data Mining, The 16th Pacific-Asia Conference on Knowledge discovery and Data Mining (PAKDD 2012) Malaysia.
- Certificate in Core Java from **NIIT** Lucknow U.P.
- Certificate in VB NET from **MARG INFOZEN SOFTWARE SOLUTION** Lucknow U.P.

Research Publications

Conference:

1. **Akshansh Gupta** and R. K. Agrawal *Relevant Feature Selection from EEG Signal for Mental Task Classification*, P N Tan et.al. (Eds): PAKKD 2012, Part II, LNAI 7302, pp. 431-442, 2012. @Springer-Verlag Berlin Heidelberg 2012 [The 16th Pacific-Asia Conference on Knowledge discovery and Data Mining, Malaysia PAKDD 2012] ISSN/ISBN: 978-3-642-30216-9
2. **Akshansh Gupta**, R. K. Agrawal and Baljeet Kaur *A three phase approach for mental task classification using EEG* in ICACCI '12, August 03 - 05 2012, CHENNAI, India, ACM 978-1-4503-1196, pp-896-904, ISSN/ISBN: 978-1-4503-1196-0
3. **Akshansh Gupta** and Jyoti Singh Kirar “*A Novel Parametric Feature Extraction Approach for Mental Task Classification*”. 2015 Intl. Conference on Computing and Network Communications (CoCoNet'15), Dec. 16-19, 2015, Trivandrum, India. IEEE Xplore, pp- 841-844

Journal:

1. **Akshansh Gupta**, R. K. Agrawal and Baljeet Kaur *Performance enhancement of mental task classification using EEG Signal: a study of multivariate feature selection method* Soft Computing Journal, 19(10), 2015,2799-2812, ISBN- 1433-7479
2. **Akshansh Gupta** and Dharendra Kumar: *Fuzzy clustering-based feature extraction method for mental task classification*, *Brain Informatics* ,2017,135-145, 4(2), ISBN 2198-4026
3. Amit Saxena, Mukesh Prasad, **Akshansh Gupta**, Neha Bharill, Om Prakash Patel, Aruna Tiwari, Meng Joo Er, Weiping Ding, and Chin-Teng Lin. "A Review of Clustering Techniques and Developments." *Neurocomputing*(2017), 267, 664-681 ISSN: 0925-2312

Talk:

1. **Akshansh Gupta** “*Distinguish of two different states human thought using soft computing approaches*”. Invited Talk in Bioinformatica Indica Conference in Kerala in Jan-2016.
2. **Akshansh Gupta** “*Distinguish of two different states human thought using soft computing approaches*”. Invited Talk in National Science Day-2017, Jawaharlal Nehru University
3. **Akshansh Gupta** and Dharendra Kumar: *Fuzzy clustering-based feature extraction method for mental task classification*, Contribution Talk in International Symposium on Computational Mathematics, Optimization, and Computational Intelligence (CMOCI 2017), IIT, Indore, India.

Communicated to Journal

1. **Akshansh Gupta** et al *A Conjunction of Power Spectral and Multivariate Feature Selection Approach to Improve Mental Task Classification* is communicated to peer review Journal
2. **Akshansh Gupta** et al *Optimal Decision Tree Based Support Vector Machine For Multi-*

Class Mental Task Classification, Revised manuscript submitted in IEEE Transactions on Cognitive and Developmental Systems

3. **Akshansh Gupta**, Dharendra Kumar, Anirban Chakraborti, and Kiran Sharma: Performance Evaluation of Empirical Mode Decomposition Algorithms for Mental Task Classification. *doi*: <http://dx.doi.org/10.1101/076646>

Seminar Attended:

1. International Conference on Methods and Models in Computer Science (ICM2CS-2009), School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi-110067
2. International Conference on Big Data Analytic (BDA-2012), Department of Computer Science, University of Delhi
3. International Conference on Big Data Analytic (BDA-2014), Indian Institute of Technology, Delhi
4. National Science Day, 2015, Jawaharlal Nehru University, New Delhi-110067
5. National Science Day, 2017, Jawaharlal Nehru University, New Delhi-110067
6. Bioinformatica, Indica, 2016, Department of Computational Biology and Bioinformatics, University of Kerala, Thiruvananthapuram, Keralam, India
7. Continuing Education Program (CEP) on Brain Science & Technology : Tool and Techniques to Understand the Human Brain, Neurocomputing Lab, Dept. of Electrical Engineering, IIT Delhi
8. International Symposium on Computational Mathematics, Optimization, and Computational Intelligence (CMOCI 2017), IIT, Indore, India.

Subjects I can teach-

- Pattern Classification
- Data Mining
- Operating System
- Data Structure
- Database Management System
- Theoretical Computer Science
- Basic Discrete Mathematics

Computer Knowledge

- **Programming Languages** : C, VB6.0, Core Java
- **Operating System**: Windows
- **Technology** : .Net, Matlab, R, Weka, SPSS, Python

Co-curricular Activities:

- Actively participated in disability welfare activities in and outside JNU.
- Have worked as a mess secretary in Kaveri hostel in JNU, New Delhi in year 2010.
- Contested for the post of President in Student Union Election in JNU 2012.

Strength:

Hardworking, Optimist & Disciplined