# Prof. Vishal Gupta

Professor (Computer Science & Engineering),
University Institute of Engineering & Technology,
Panjab University Chandigarh.      **Phone**: 9914504524(M)   **Email:** vishal@pu.ac.in

## Teaching Experience:

More than 17 years of Teaching Experience in Computer Science & Engineering at University Institute of Engineering & Technology, Panjab University Chandigarh. (From 3rd July, 2006 — present)

## Awards Won:

- **Selected in <u>world top 2% Scientists ranking list-2019, 2020 and 2021</u>** released **by Stanford University** in Computer Science for single year impact of year 2019, 2020 and 2021 respectively.

- **Young Scientist Award Winner** in Engineering & Technology at 16th Punjab Science Congress in 2013.

- **Faculty Research Award Winner** for Publishing paper in highest Impact Factor SCI Journal in 2015

## Funded Research Projects Funded International Research Projects: 07

| Sr. No. | Funding Agency | Title of Project | Amount | Duration |
|---------|----------------|------------------|--------|----------|
| 1 | King Abdulaziz University, Saudi Arabia | An Unsupervised Language Independent Text Stemmer for Information Retrieval | 3500 USD | 1st Jan 2018 to 30th Sept 2018 **(Completed)** |
| 2 | King Abdulaziz University, Saudi Arabia | A Novel Keyword Extraction Technique for Data Analysis | 3500 USD | 1st Jan, 2019 to 31st July, 2022 **(Completed)** |
| 3 | King Abdulaziz University, Saudi Arabia | Machine Learning based Sentiment Analysis System for Multiple Domains | 7000 USD | Started from 1st Nov, 2018 **(On Going)** |
| 4 | King Abdulaziz University, Saudi Arabia | Predicting Twitter News Trends using Deep Learning | 7000 USD | Started from 1st Feb, 2019 **(On Going)** |
| 5 | King Abdulaziz University, Saudi Arabia | A Compressed Deep Learning Model for Medical Report Generation | 3500 USD | 1year and 3 months Started from 15st June, 2022 **(On Going)** |
| 6 | King Abdulaziz University, Saudi Arabia | A Hybrid Word Embedding driven Deep Leaning Based Sentiment Analysis System | 3500 USD | 1year and 3 months Started from 25st June, 2022 **(On Going)** |
| 7 | King Abdulaziz University, Saudi Arabia | A novel deep learning-based model for Named Entity Recognition | 3500 USD | 1year and 3 months Will start from 1st Feb , 2023 **(On Going)** |

## Research Guidance

- Total Number of PhDs Awarded: 4
- Number of PhDs Thesis Submitted: 1
- Total Number of M.E. Thesis completed:17

## Publications and Citations:

- **Total Number of Papers published in SCI /SCIE Indexed Journals : 22**
  (Highest Impact factor: 14.324 for ACM Computing Surveys, ACM)
- Number of Citation in Google Scholar: 4672 with h-index=26 and i10-index=44
- Number of Citations in SCOPUS: 1987 citations in SCOPUS with h-index=15

# List of Papers published in SCI /SCIE Indexed Journals:22

1. Archana Goyal, **Vishal Gupta** and Manish Kumar, "A deep neural framework for named entity recognition with boosted word embeddings", Multimedia Tools and Applications, Springer, pp. 1–14, July 2023, https://doi.org/10.1007/s11042-023-16176-1 **(SCIE Indexed) (Impact Factor: 3.6)**

2. Archana Goyal, **Vishal Gupta** and Manish Kumar, "Deep Learning-Based Named Entity Recognition System Using Hybrid Embedding", "Cybernetics and Systems" An International Journal, Taylor & Francis, Published online on Aug 2022, pp: 1-23, https://doi.org/10.1080/01969722.2022.2111506 **(SCIE Indexed) (Impact Factor: 1.7)**

3. Mahak Gambhir and **Vishal Gupta**, "Deep learning-based extractive text summarization with word-level attention mechanism", Multimedia Tools and Applications, Springer, pp. 20829–20852, Vol. 81, Issue 15, June 2022, **(SCIE Indexed) (Impact Factor: 3.6)**

4. Fahd Alotaibi and **Vishal Gupta**, " Sentiment Analysis System using Hybrid Word Embeddings with Convolutional Recurrent Neural Network", International Arab Journal of Information Technology, pp. 330-335, Vol. 19, No. 3, May 2022.                    **(SCIE Indexed**) (**Impact Factor: 1.2**)

5. Saurabh Sharma, **Vishal Gupta** and Mamta Juneja, "A novel unsupervised multiple feature hashing for image retrieval and indexing (MFHIRI)", **Journal of Visual Communication and Image Representation, Elsevier**, pp. 1-13, Vol.84, April 2022.                    **(SCIE Indexed) (Impact Factor:2.6)**

6. Saurabh Sharma and **Vishal Gupta**, "Role of twitter user profile features in retweet prediction for big data streams", **Multimedia Tools and Applications, Springer**, pp:1-30, Online Published on 26th March, 2022. **(SCIE Indexed) (Impact Factor: 3.6)**

7. Archana Goyal, **Vishal Gupta** and Manish Kumar, "A deep learning-based bilingual Hindi and Punjabi named entity recognition system using enhanced word embeddings", **Knowledge-Based Systems, Elsevier**, pp.1-13, Vol.234, December 2021. **(SCI Indexed) (Impact Factor:8.8)**

8. Archana Goyal, **Vishal Gupta** and Manish Kumar, "Recurrent Neural Network-Based Model for Named Entity Recognition with Improved Word Embeddings", **IETE Journal of Research, Taylor and Francis**, pp:1-7, Published online on 16 Dec 2021.                    **(SCIE Indexed) (Impact Factor:1.5)**

9. Manpreet Kaur, **Vishal Gupta** and Ravreet Kaur, "Semantic-Based Integrated Plagiarism Detection Approach for English Documents", **IETE Journal of Research, Taylor and Francis**, pp.1-7, Published online on 05 Dec 2021. **(SCIE Indexed) (Impact Factor:1.5)**

10. Saurabh Sharma, **Vishal Gupta** and Mamta Juneja, "Diverse feature set based Keyphrase extraction and indexing techniques", **Multimedia Tools and Applications, Springer**, Vol.80, pp.4111-4142, January 2021. **(SCIE Indexed) (Impact Factor: 3.6)**

11. Lovepreet Ahuja, **Vishal Gupta** and Rohit Kumar ,"A New Hybrid Technique for Detection of Plagiarism from Text Documents", **Arabian Journal for Science and Engineering, Springer**, Vol.45, pp:9939–9952, December 2020, (**SCIE Indexed) (Impact Factor:2.9)**

12. Jasmeet Singh and **Vishal Gupta**, "A novel unsupervised corpus-based stemming technique using lexicon and corpus statistics", **Knowledge-Based Systems**, **Elsevier**, Vol.180, pp:147–162, September 2019. **(SCI Indexed)** (**Impact Factor: 8.8**)

13. Saurabh Sharma, **Vishal Gupta** and Mamta Juneja, "A survey of image data indexing techniques", **Artificial Intelligence Review, Springer**, Vol.52, pp:1189–1266, August 2019. **(SCI Indexed) (Impact Factor: 12)**

14. Fahd Saleh Alotaibi and **Vishal Gupta**, "A cognitive inspired unsupervised language-independent text stemmer for Information retrieval", Cognitive Systems Research, Elsevier, vol.52 pp. 291–300, 2018 (**SCIE Indexed and Impact Factor: 3.9**)

15. Archana Goyal, **Vishal Gupta** and Manish Kumar, "Recent Named Entity Recognition and Classification techniques: A systematic review", Computer Science Review, **Elsevier**, Vol. 29, pp.21-43, 2018. https://doi.org/10.1016/j.cosrev.2018.06.001 (**SCIE Indexed**) (**SCI Indexed with Impact Factor: 12.9**)

16. Amandeep Kaur and Vishal Gupta, "A Novel Approach for Sentiment Analysis of Punjabi Text using SVM", International Arab Journal of information Technology, Vol.14, No.5, pp. 707-712, September 2017. **(SCIE Indexed with Impact Factor: 1.2)**

17. Mansi Sahi and Vishal Gupta, "A Novel Technique for Detecting Plagiarism in Documents Exploiting Information Sources", Cognitive Computation, Springer, Vol. 9, pp 852–867, August 2017, https://doi.org/10.1007/s12559-017-9502-4 (**SCI Indexed** with **Impact Factor: 5.4**)

18. Jasmeet Singh and Vishal Gupta, "An Efficient Corpus-Based Stemmer", Cognitive Computation, Springer, Published Online, pp 1-18, June 2017, ISSN: 1866-9964 (electronic version) (**SCI Indexed** with **Impact Factor: 5.4**)

19. Mahak Gambhir and **Vishal Gupta**, "Recent automatic text summarization techniques: a survey" Artificial Intelligence Review, **Springer**, Volume 47, Issue 1, pp 1–66, 2017 (**SCI Indexed with Impact Factor: 12**)

20. Jasmeet Singh and **Vishal Gupta**, "A systematic review of text stemming techniques", Artificial Intelligence Review, **Springer**, pp-1-61, 2016, Volume 48, Issue 2, pp 157–217, 2017 (**SCI Indexed with Impact Factor: 12**)

21. Jasmeet Singh and **Vishal Gupta**, "Text Stemming: Approaches, Applications, and Challenges", **ACM** Computing Surveys, Vol. 49, No. 3, Article 45, pp-1-46, December 2016, DOI: http://dx.doi.org/10.1145/2975608 (**SCI Indexed** with **Impact Factor:** 1**4.324**)

22. **Vishal Gupta** and Narvinder Kaur, "A Novel Hybrid Text Summarization System for Punjabi Text", Cognitive Computation, Springer, Volume 8, Issue 2, pp 261-277, 2016, ISSN: 1866-9956 (**SCI Indexed** with **Impact Factor: 5.4**)

28/07/2023
**(Prof. Vishal Gupta)**