

Prof. Vishal Gupta

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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 world top 2% Scientists ranking list 2019-2023** released by **Stanford University** in Computer Science for single year impact of respective years from 2019 to 2023 and for author career-long from 2022 and 2023 respectively.
- **Young Scientist Award Winner** in Engineering & Technology at 16th Punjab Science Congress 2013 which included Rs.7500/- Cash Prize, Gold Medal and a Certificate..
- **Faculty Research Award Winner** of Rs.10,000/- and Certificate in UIET for Publishing paper in high Impact Factor SCI Indexed Journal during academic Year 2015-16.

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	1 st Jan 2018 to 30 th Sept 2018 (Completed)
2	King Abdulaziz University, Saudi Arabia	A Novel Keyword Extraction Technique for Data Analysis	3500 USD	1 st Jan, 2019 to 31 st July, 2022 (Completed)
3	King Abdulaziz University, Saudi Arabia	Machine Learning based Sentiment Analysis System for Multiple Domains	7000 USD	Started from 1 st Nov, 2018 (On Going)
4	King Abdulaziz University, Saudi Arabia	Predicting Twitter News Trends using Deep Learning	7000 USD	Started from 1 st 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 15 st June, 2022 (On Going)
6	King Abdulaziz University, Saudi Arabia	A Hybrid Word Embedding driven Deep Learning Based Sentiment Analysis System	3500 USD	1year and 3 months Started from 25 st 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 1 st Feb , 2023 (On Going)

Research Guidance

- Total Number of PhDs Awarded: 5
- Total Number of M.E. Thesis completed:18

Publications and Citations:

- **Total Number of Papers published in SCI/SCIE Indexed Journals : 27**
(Highest 2023-Impact Factor: 23.8 for ACM Computing Surveys, ACM)

- Number of Citation in Google Scholar: 5458 with h-index=26 and i10-index=51
- Number of Citations in SCOPUS: 2388 citations in SCOPUS with h-index=17

List of Papers published in SCI/SCIE Indexed Journals:27

1. Mahak Gambhir and **Vishal Gupta**, "Improved hybrid text summarization system using deep contextualized embeddings and statistical features", **Multimedia Tools and Applications, Springer**, pp. 1-30, Published Online, June 2024, <https://doi.org/10.1007/s11042-024-19524-x> (SCIE Indexed) (Impact Factor: 3.0)
2. Archana Goyal, **Vishal Gupta** and Manish Kumar, "Deep Learning-Based Named Entity Recognition System Using Hybrid Embedding", **Cybernetics and Systems, Taylor and Francis**, Vol.55, NO.2, pp.279-301,2024, <https://doi.org/10.1080/01969722.2022.2111506>. (SCIE Indexed) (Impact Factor: 1.1)
3. Fahd Alotaibi, Khaled Hamed Alyoubi, Ajay Mittal, **Vishal Gupta** and Navdeep kaur, "TinyCheXReport: Compressed deep neural network for Chest X-ray report generation", **ACM Transactions on Asian and Low-Resource Language Information Processing, ACM**, Vol.23, No.9, Article 135, pp. 1-16, Aug 2024, <https://dl.acm.org/doi/pdf/10.1145/3676166> (SCIE Indexed) (Impact Factor: 1.8)
4. Khaled Hamed Alyoubi, Fahd Saleh Alotaibi, Akhil Kumar, **Vishal Gupta**, Akashdeep Sharma, "A novel multi-layer feature fusion-based BERT-CNN for sentence representation learning and classification", **Robotic Intelligence and Automation, Emerald** , Vol. 43, Issue 6, pp.704-715, Nov. 2023. (SCIE Indexed) (Impact Factor: 1.90)
5. Fahd Saleh Alotaibi, Saurabh Sharma, **Vishal Gupta** & Savita Gupta, "Keyphrase Extraction Using Enhanced Word and Document Embedding", **IETE Journal of Research, Taylor and Francis**, Vol. 69, NO. 12, 2023, pp. 8876–8888, <https://doi.org/10.1080/03772063.2022.2103036> (SCIE Indexed) (Impact Factor: 1.3)
6. 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: 3.0)
7. 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: 1.1)
8. 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: 3.0)
9. 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)
10. 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)

11. 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: 3.0)**
12. 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)**
13. 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:1.3)**
14. 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:1.3)**
15. 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: 3.0)**
16. 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)**
17. 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)**
18. 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)**
19. 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)**
20. 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)**
21. 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)**
22. 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)**
23. 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)**

24. 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**)
25. 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**)
26. 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-2023: 23.8**)
27. **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**)
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