

SUCETHA VIJAYAKUMAR

Email : suchethav@staloysius.ac.in

Phone : 9449664667

Current Role Description

Associate Professor and HOD, PG Department of Software Technology

Education Summary

Degree and Date	Institute	Year of completion
PhD (Persuing)	Srinivas University	Persuing
MTech	KSOU, Mysore	2013
M.Sc	KSOU, Mysore	2007
PGDCA	St. Aloysius College, Mangalore	1996
B.Sc	Canara College, Mangalore	1995

Journal Publications

- Suchetha Vijayakumar, Krishna Prasad K, and R. Holla M.(2024), “Assessing the Effectiveness of MoSCoW Prioritization in Software Development: A Holistic Analysis across Methodologies”, EAI Endorsed Trans IoT, vol. 10, Oct. 2024. DOI: <https://doi.org/10.4108/eetiot.6515> (Scopus Indexed – Q4)
- Suchetha Vijayakumar & Nethravathi, P. S. (2023): Exploring Software Requirements Prioritization Techniques: Types, Evolution, And Metrics For Effective Decision-Making, *International Research Journal of Modernization in Engineering Technology and Science(IRJMETs)*, 5(5), 9778-9783. (ISSN 2582-5208). DOI : <https://www.doi.org/10.56726/IRJMETs41247>
- Suchetha Vijayakumar & Nethravathi, P. S. (2021). Use of Natural Language Processing in Software Requirements Prioritization–A Systematic Literature Review. *International Journal of Applied Engineering and Management Letters (IJAEmL)*, 5(2), 152-174. (ISSN: 2581-7000)
- Suchetha Vijayakumar & Nethravathi, P. S. (2021). The Growth of IT & BPM Industry Services and its Journey towards ‘Make in India’–A Case Study. *International Journal of Case Studies in Business, IT and Education (IJCSBE)*, 5(1), 232-243.(ISSN 2581-6942)
- Suchetha Vijayakuma r & Nethravathi, P. S. (2021). The Mega Conglomerate of India- Success Story of Growth of Reliance Industries: A Case Study. *International Journal of Case Studies in Business, IT and Education (IJCSBE)*, 5(1), 143-154. (ISSN 2581-6942)
- Suchetha Vijayakumar(2020) Decision making in Inventory Management Planning

using Heuristic Methods, International Journal of Scientific Research in Computer Science Applications and Management Studies(IJSRCSAMS) , Volume 9, Issue 1(January 2020) (ISSN 2319-1953)

- SuchethaVijayakumar(2020) Deep Learning:A New Paradigm To Machine Learning, International Journal of Scientific Research in Computer Science Applications and Management Studies(IJSRCSAMS) , Volume 9, Issue 1(January 2020) (ISSN 2319-1953)
- Suchetha Vijayakumar(2020) An implementation of Matrix Factorization Technique for Movie Recommendation, International Journal of Scientific Research in Computer Science Applications and Management Studies(IJSRCSAMS) , Volume 9, Issue 1(January 2020) : ISSN 2319-1953
- Suchetha VijayaKumar(2020) Improved ELGamal algorithm for String inputs , International Journal of Scientific Research in Computer Science Applications and Management Studies(IJSRCSAMS) , Volume 9, Issue 1(January 2020) :ISSN 2319-1953
- Suchetha Vijaykumar(2018) A Comparative Study Of Supervised Learning Algorithms In Email Filtering , International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS) (Volume 7, Issue 6 (November 2018)) ISSN: 2319-1953
- Suchetha Vijaykumar(2018) Evaluation Of Data Compression Using Lossless Algorithm, International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS) (Volume 7, Issue 6 (November 2018)) ISSN: 2319-1953
- Suchetha Vijaykumar(2018) Study On Bcrypt And Scrypt Key Derivation Function Algorithm, International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS) (Volume 7, Issue 6 (November 2018)) ISSN: 2319-1953
- Suchetha Vijaykumar(2018) Study And Review On Various Phishing And Anti Phishing Techniques, International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS) (Volume 7, Issue 6 (November 2018)) ISSN: 2319-1953
- Suchetha Vijaykumar(2018) Application Of Blockchain Technology For Egovernance In Indian Perspective, International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS) (Volume 7, Issue 6 (November 2018)) ISSN: 2319-1953
- Suchetha Vijaykumar(2018) Comparative Analysis Of Phonetic Algorithms, International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS) (Volume 7, Issue 6 (November 2018)) , ISSN: 2319-1953
- Suchetha Vijayakumar(2018) A Study And Analysis On Speaker Recognition Techniques And Classifiers, International Journal of Scientific Research in Computer

Science Applications and Management Studies (IJSRCSAMS) (Volume 7, Issue 6 (November 2018)) ISSN: 2319-1953

- Suchetha V (2017) A comparative Analysis of String Metric Algorithms, International Journal of Latest Trends in Engineering and Technology(IJLTET), Special Issue – SACAIM – 2017, pp 138-142, e-ISSN:2278-621X
- Suchetha V(2017) Comparative Analysis on efficiency of Multiple String Pattern Matching Algorithms, , International Journal of Latest Trends in Engineering and Technology(IJLTET), Special Issue – SACAIM – 2017, pp 362-365, e-ISSN:2278-621X
- Suchetha VijayaKumar(2016) Generating Data Using Tree Pattern Matching-A Survey , International Journal of Latest Trends in Engineering and Technology (IJLTET), Special Issue – SACAIM – November 2016, pp 216-220, e-ISSN : 2278-621X
- Suchetha Vijayakumar (2016) Comparative Analysis On Efficiency Of Single StringPattern Matching Algorithms, International Journal of Latest Trends in Engineering and Technology (IJLTET) , Special Issue – SACAIM – November 2016, pp 221-225 e-ISSN : 2278-621X
- SuchethaVijayakumar (2016) New Paradigm Of Developing Web Applications Using Z-Model , International Journal of Latest Trends in Engineering and Technology(IJLTET), Special Issue – SACAIM – November 2016 , pp 479-483, e-ISSN : 2278-621X
- Suchetha Vijayakumar (2015) Detecting Data race Error using Enhanced Lockset Algorithm , International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE), Vol. 3, Special Issue 7, October 2015, pp 384-389, ISSN(Print) : 2320-9788; ISSN(Online) : 2320-9801
- Suchetha Vijayakumar(2015) Study on Electromagnetic Radiation from Cell Phone towers and their effects on Animals, Plants and Environment, International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE), Vol. 3, Special Issue 7, October 2015, pp 370-374 ISSN(Print) : 2320-9788; ISSN(Online) : 2320-9801
- Suchetha V (2014) An Analysis of Cloud Interoperability Standards on Various Service Models, International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE), Vol.2, Special Issue 5, October 2014, pp.38-42, ISSN(Online):2320-9801 ISSN(Print): 2320-9798
- Suchetha V(2014) Comparative Analysis of various algorithms used in Travelling Salesman Problem , International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE), Vol.2, Special Issue 5, October 2014, pp.351-357, ISSN(Online):2320-9801 ISSN(Print): 2320-9798
- Suchetha Vijayakumar(2011) A study on different approaches towards Aspect Oriented Requirements Engineering, Indian Journal of Computer Science and Engineering (IJCSE), Volume 2 Issue 4, pp 539-542, e-ISSN:0976-5166 p-

Book Chapters

- Suchetha Vijayakumar, Ruban S, Soujanya, Vinayaka D, “Vaccibot: Chatbot For Addressing Vaccination Queries of Pregnant Women And Children”, ISBN: 978-93-89476-71-2 | DOI: 10.25215/9389476712.35.
- Ruban S, Suchetha VijayaKumar, Srinivas B.L, Adarsh Manikoth, “Comparative insights into AI and Transformer Models for Oral Pathology”, Infinity publication, volume 1, pageNo: 151, international conference on advance IT, Engineering and Management – SACAİM – 2024. DOI: 10.25215/9389476674. ISBN: 978-93-89476-67-5.
- Srinivas B.L, Suchetha Vijayakumar, Dheeraj Shetty, Sanjo Jose Augustine, “Leveraging the AGS Beers Criteria to reduce drug-disease interaction and improve outcomes in older adults”, Infinity publication, volume 2, pageNo: 102, international conference on advance IT, Engineering and Management – SACAİM – 2024. DOI: 10.25215/9389476712. ISBN: 978-93-89476-71-2.
- Suchetha Vijayakumar, Srinivas B.L, Shravya C Mogaveera, Gautham kumar ganesh poojary, “The Beers criteria and beyond: A comprehensive approach to medication safety in older adults with kidney impairment”, Infinity publication, volume 2, pageNo: 216, international conference on advance IT, Engineering and Management – SACAİM – 2024. DOI: 10.25215/9389476712. ISBN: 978-93-89476-71-2.
- Suchetha Vijayakumar, Shankara Aithal, Frencita Menezes, Prajwal Hegde CONVERSATIONAL SARCASM DETECTION USING NATURAL LANGUAGE PROCESSING. ISBN: 978-93-89476-67-5 | DOI: 10.25215/9389476674.26
- Suchetha Vijayakumar, Haripriya KT, Abin T Joseph EMOTION RECOGNITION IN TEXT USING NLP ISBN: 978-93-89476-67-5 | DOI: 10.25215/9389476674.34
- Suchetha Vijayakumar, Brindana, Keerthan H USER INTENT DETECTION AND QUERY UNDERSTANDING USING NLP. ISBN: 978-93-89476-71-2 | DOI: 10.25215/9389476712.34
- Ruban, Suchetha Vijay Kumar, Varenaya, Ashmitha “Optimizing Chatbot Design for Vaccine Information Using Biopt, Tinyllama, And Llama 3.1 Models” ISBN: 978-93-89476-67-5 | DOI: 10.25215/9389476712.23.
- Suchetha Vijayakumar, Ruban, BG Sharanya Shetty, Adithya, “Medquery Ai: Querying Diabetes, Cancer, And Hypertension Using Llama-2b Model”, ISBN: 978-93-89476-71-2 | DOI: 10.25215/9389476712.21.
- Ruban, Suchetha Vijay Kumar, Srinivas B L, Adarsh Manikoth “Comparative Insights into AI and Transformer Models for Oral Pathology” ISBN: 978-93-89476-67-5 | DOI: 10.25215/9389476674.21.
- Suchetha Vijayakumar, Ruban, Pawana, Sreejesh kumar “Comparative Analysis of Machine Learning and Generative AI Approaches for Oral disease Prediction” ISBN: 978-93-89476-67-5 | DOI: 10.25215/9389476674.20.
- Ruban, Suchetha Vijay Kumar, Adarsh M K, Reshab A Shetty “A Comparative Study of Language Model Approaches for Efficient Vaccine Information Dissemination Through Chatbot” ISBN: 978-93-89476-67-5 | DOI: 10.25215/9389476674.01.
- Suchetha Vijayakumar, Srinivas B.L, Shravya C Mogaveera, Gautham kumar ganesh poojary, “The Beers criteria and beyond: A comprehensive approach to medication safety in older adults with kidney impairment”, Infinity publication, volume 2, pageNo: 216, international

conference on advance IT, Engineering and Management – SACAIM – 2024. DOI: 10.25215/9389476712. ISBN: 978-93-89476-71-2

- Suchetha Vijayakumar, & Krishna Prasad K. (2024). Assessing the Accuracy of MoSCoW Requirement Prioritization Using Rank-Based Metrics. In Tech Horizon 2024, Advancing Frontiers in Computer Science & Information Technology (pp. 166–173). Srinivas Publications. <https://doi.org/10.5281/zenodo.13329144>
- Akshay, B., George, T., & Vijayakumar, S. (2023). A REVIEW ON TEXT MATCHING TECHNIQUES AND APPROACHES IN NATURAL LANGUAGE PROCESSING. INFORMATION TECHNOLOGY & BIOINFORMATICS International Conference on Advance IT, Engineering and Management SACAIM-2022 - Volume 2. ISBN: 78-81-19070-77-0 . Pg : 67. DOI : <https://www.doi.org/10.25215/8119070771.10>
- Aparna, K., Bhakta, P., & Vijaykumar, S. (2023). A REVIEW ON DIFFERENT APPROACHES OF POS TAGGING IN NLP. INFORMATION TECHNOLOGY & BIOINFORMATICS International Conference on Advance IT, Engineering and Management SACAIM-2022 - Volume 1 . ISBN: 978-81-19070-68-8 . Pg: 47. DOI: <https://www.doi.org/10.25215/8119070682.09>
- Shravya, U., & Vijayakumar, S. (2023). SMARTER SOLUTIONS AND APPLICATIONS USING NLP TRANSFER LEARNING–A REVIEW. INFORMATION TECHNOLOGY & BIOINFORMATICS International Conference on Advance IT, Engineering and Management SACAIM-2022 - Volume 1 . ISBN: 978-81-19070-68-8. Pg 117. DOI: <https://www.doi.org/10.25215/8119070682.20>
- Suchetha Vijayakumar , Nethravathi PS (2023)Catalyzing Decision-Making: A Comprehensive study and evaluation of Python Libraries for accurate Sentiment Analysis on prelabelled datasets, Future trends in Information, Communication and Computing Technology, pg 127-134, Srinivas publications, ISBN: 978-93-94676-57-2. doi: <https://doi.org/10.5281/zenodo.10439224>
- Suchetha Vijayakumar, Naresha, Muriel SonalD'Almeida (2021), Machine Learning Approach to Study Cross Selling Using Logistic Regression, Naïve Bayes, Random Forest and Extreme Gradient Boost Classification Models, Advances in ICT & Knowledge Management In Cyber Space ,pg 45-58, New Delhi Publishers, ISBN: 978-93-91012-10-6
- Suchetha Vijayakumar, Esther Raina Monteiro, Sharon RenishaD'souza(2021), Sales Forecasting Using Machine Learning Models: A Case Study of Apple Mart Supermarket, Advances in ICT & Knowledge Management In Cyber Space ,pg 145-158, New Delhi Publishers, ISBN: 978-93-91012-10-6
- Suchetha Vijayakumar , Thomas C G (2021), Enhancing Software maintainability and Software quality by detecting and combating Code Smells in Object Oriented Programming, Proceedings of International Conference on Emerging Trends in Computer Science & Technology, pg 89-95, Srinivas Publication, ISBN: 978-81-949961-5-6
- Suchetha Vijayakumar(2020), Bridging Natural Language Processing and Machine Learning – Future perspective, National Level Paper Contest for Ph.D. StudentsonRecent Trends in Computer & Information Scienceand Management & Engineering, pg 22-25, Srinivas publication, ISBN: 978-81-944670-1-4

Employment Summary

Dates	Organization	Role
01-06-1996 till date	St. Aloysius College, Mangalore	Lecturer/Senior Lecturer/Asst Professor/Associate Professor

Funded Research Projects:

- Completed: VGST – SpiCE (2014-15) sanctioned for Rs. 30000/- for a Project titled "Study on Electromagnetic Radiation from Cell Phone towers and their effects on Animals, Plants and Environment"
- Completed : KSCST: 47th series Student Project Programme (2024) sanctioned for Rs. 5500 for a Project titled "DEVELOPMENT OF CHAT BOT FOR VACCINATION USING ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING "
- Completed : KSCST: 47th series Student Project Programme (2024) sanctioned for Rs. 5000 for a project titled "AI DRIVEN APPROACH FOR BRONCHOPNEUMONIA DETECTION IN CHILDREN "

Personal Details

Date of Birth	26-06-1974
Nationality	Indian
Address	4-6-573, Near Fantasy Apts, K.R Rao Road Karangalpady, Mangalore - 575003