



Dr Gopi Battineni

WORK EXPERIENCE

Computer systems analyst

University of Polytechnico della, Marche [01/04/2017 - 30/08/2017]

City: Ancona

Country: Italy

We were worked to specify why process mining helps to improve organizational efficiency and indicate performance indicators on case studies determined by my supervisor. It is in particular to integrate our respective approaches, my work mainly Experimental few coding activities. It means, getting some data describing sequences of operations like a typical event log generated by some information system, pre-processing them and use algorithms to extract paths that represent the general process executed by people, information about time, duration and other insights. More or less it mainly concentrated on the generated process model and found out where data was deviating from the model by tools Prom Lite or Disco.

Computer programmer

Yantra Software [04/11/2013 - 07/08/2014]

City: Hyderabad

Country: India

Create a dashboard for mobile applications
Design and deploy data table structures

College / university teaching professional

JNT University [05/06/2012 - 10/10/2013]

City: Kakinada

Country: India

Develop professional logistics to improvise student performance.
Guide, lead and mentor students in research projects.
Evaluate, monitor and mentor student academic progress.
Create, innovate and implement career-enhancement programs and activities.
Supervise and support teaching assistants.



Reserach fellow

University of Camerino [12/01/2022 – Current]

City: Camerino

Country: Italy

Provides support for professionals conducting experiments or gathering and analyzing information
Prediction of early dementia in older adults by incorporating machine learning knowledge
Data visualization and statistics
Write reports to summarize data and the implications of the results
Managing classrooms for masters candidates and conducting lectures

EDUCATION AND TRAINING

Ph.D. (Doctorate in Philosophy)

University of Camerino [2020]

Address: Via Madonna Delle Carceri 9 Camerino , 62032 MC (Italy)

Field(s) of study: Health and welfare

Final grade: Excellent with praise – Level in EQF: EQF level 8

Type of credits: ECTS – Number of credits: 180

Thesis: Comprehensive machine learning algorithms to evaluate the older adult dementia progression

Health data Mining, Health websites development, Machine Learning in the diagnosis of chronic diseases, Telemedicine, Text Mining of medical documents, Health database, ICT Technologies, R, Process Assessment (Health Care), Data Science, Process Mining in Healthcare, and Predictive modelling

International masters in Enterprise Engineering

University of Bordeaux [2017]

Address: Bordeaux (France)

Field(s) of study: Enterprise Engineering

Final grade: A+ – Level in EQF: EQF level 7

National classification: MS – Type of credits: ECTS – Number of credits: 60

Thesis: Process mining in Education

Data Mining, MRP II, GRAI, Enterprise Modeling and Industrial Engineering

Masters in Enterprise System Professional

Sheffield Hallam University [2016]

Address: Sheffield (United Kingdom)

Final grade: A – Level in EQF: EQF level 7

National classification: Masters – Type of credits: ECTS – Number of credits: 180

Thesis: Opportunities of Indian companies by implementing ERP systems (Case Study: TATA manufacturing)



Project Management, Web Services, Data Base Management and ERP methods

Bachelors of technology in Electronics and Communication Engineering

JNT University [2012]

Address: Kakinada (India)

Final grade: Honored first class with distinction – Level in EQF: EQF level 6

National classification: B.Tech Number of credits: 360

Thesis: Recognition of Vehicle Number Plate Using MATLAB

Java, C, C++, Data bases and Mat Lab

LANGUAGE SKILLS

Mother tongue(s): **Telugu** | **Hindi**

Other language(s):

English

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C2

SPOKEN INTERACTION C1

France

LISTENING A2 READING A1 WRITING A1

SPOKEN PRODUCTION A2

SPOKEN INTERACTION A1

Italy

LISTENING A2 READING B1 WRITING B1

SPOKEN PRODUCTION B1

SPOKEN INTERACTION B1

H-INDEX

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Source: Google Scholar

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Source: Scopus

PUBLICATIONS

1

Battineni G, Chintalapudi N, Amenta F, Traini E. A Comprehensive Machine-Learning Model Applied to Magnetic Resonance Imaging (MRI) to Predict Alzheimer's Disease (AD) in Older Subjects. *J Clin Med*. 2020;9(7):2146. doi:10.3390/jcm9072146

2

Battineni G, Chintalapudi N, Amenta F. Machine learning in medicine: Performance calculation of dementia prediction by support vector machines (SVM). *Informatics Med Unlocked*. Published online 2019. doi:10.1016/j.imu.2019.100200

**3**

Battineni G, Sagaro GG, Chinatalapudi N, Amenta F. Applications of Machine Learning Predictive Models in the Chronic Disease Diagnosis. *J Pers Med*. 2020 Mar 31;10(2):21. doi: 10.3390/jpm10020021.

4

Gopi B, Nalini C, Francesco A. Late-Life Alzheimer's Disease (AD) Detection Using Pruned Decision Trees. *Int J Brain Disord Treat*. 2020;6(1). doi:10.23937/2469-5866/1410033

5

Battineni G, Chintalapudi N, Amenta F. Comparative machine learning approach in dementia patient classification using principal component analysis. In: *ICAART 2020 - Proceedings of the 12th International Conference on Agents and Artificial Intelligence*. ; 2020. doi:10.5220/0009096907800784

6

Chintalapudi N, Battineni G, Amenta F. COVID-19 virus outbreak forecasting of registered and recovered cases after sixty-day lockdown in Italy: A data-driven model approach. *J Microbiol Immunol Infect*. 2020 Jun;53(3):396-403. doi: 10.1016/j.jmii.2020.04.004.

7

Battineni G, Chintalapudi N, Amenta F. AI Chatbot Design during an Epidemic Like the Novel Coronavirus. *Healthcare (Basel)*. 2020 Jun 3;8(2):154. doi: 10.3390/healthcare8020154.

8

Chintalapudi N, Battineni G, Sagaro GG, Amenta F. COVID-19 outbreak reproduction number estimations and forecasting in Marche, Italy. *Int J Infect Dis*. 2020 Jul;96:327-333. doi: 10.1016/j.ijid.2020.05.029.

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Nittari G, Khuman R, Baldoni S, Pallotta G, Battineni G, Sirignano A, Amenta F, Ricci G. Telemedicine Practice: Review of the Current Ethical and Legal Challenges. *Telemed J E Health*. 2020 Dec;26(12):1427-1437. doi: 10.1089/tmj.2019.0158.

10

Battineni G, Mittal M, Mohan Goyal L, et al. Cloud-based framework to mitigate the impact of COVID-19 on seafarers' mental health. *Int Marit Health*. 2020;71(3):213-214. doi:10.5603/IMH.2020.0038

11

Battineni G, Baldoni S, Chintalapudi N, et al. Factors affecting the quality and reliability of online health information. *Digit Heal*. 2020;6:1-11. doi:10.1177/2055207620948996

12

Nittari G, Arcese A, Battineni G, Khuman K, Pallotta G, Saturnino A, Sibilio F, Amenta F. Design and evolution of the Seafarer's Health Passport for supporting (tele)-medical assistance to seafarers. *Int Marit Health*. 2019;70(3):151-157. doi: 10.5603/IMH.2019.0024.

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Battineni G, Chintalapudi N, Amenta F. Model discovery, and replay fitness validation using inductive mining techniques in medical training of CVC surgery. *Appl Comput Informatics*. Published online 2020. doi:10.1016/j.aci.2020.01.001

**14**

Battineni G, Canio MD, Chintalapudi N, Amenta F, Nittari G. Development of physical training smartphone application to maintain fitness levels in seafarers. *Int Marit Health*. 2019;70(3). doi: 10.5603/IMH.2019.0028

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Battineni G, Chintalapudi N, Amenta F, Tayebati SK. Report on market analysis and preventions need to provide medications for rural patients of Italy using ICT technologies. *Int J Innov Technol Explor Eng*. Published online 2019. doi:10.35940/ijitee.A4025.119119

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Mirmoeini SM, Marashi Shooshtari SS, Battineni G, Amenta F, Tayebati SK. Policies and Challenges on the Distribution of Specialists and Subspecialists in Rural Areas of Iran. *Medicina (Kaunas)*. 2019 Dec 13;55(12):783. doi: 10.3390/medicina55120783.

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Battineni G, Sagaro GG, Nalini C, Amenta F, Tayebati SK. Comparative Machine-Learning Approach: A Follow-Up Study on Type 2 Diabetes Predictions by Cross-Validation Methods. *Machines*. 2019; 7(4):74. <https://doi.org/10.3390/machines7040074>

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Battineni G, Chintalapudi N, Amenta F. SARS-CoV-2 epidemic calculation in Italy by SEIR compartmental models. *Appl Comput Informatics*. 2020;ahead-of-p(ahead-of-print). doi:10.1108/ACI-09-2020-0060

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Nittari G, Pallotta G, Battineni G, Ioannidis N, Tayebati SK, Amenta F, Ricci G. Comparative analysis of the medicinal compounds of the ship's "medicine chests" in European Union maritime countries. Need for improvement and harmonization. *Int Marit Health*. 2019;70(3):143-150. doi: 10.5603/IMH.2019.0023.

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Sagaro GG, Battineni G, Chintalapudi N, Di Canio M, Amenta F. Telemedical assistance at sea in the time of COVID-19 pandemic. *Int Marit Health*. 2020;71(4):229–236. doi:10.5603/IMH.2020.0041

21

Battineni G, Chintalapudi N, Amenta F. Forecasting of COVID-19 epidemic size in four high hitting nations (USA, Brazil, India and Russia) by Fb-Prophet machine learning model. *Appl Comput Informatics*. Published online 2020. doi:10.1108/aci-09-2020-0059

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Battineni G, Amenta F. Designing of an Expert system for the management of Seafarer's health. *Digit Heal*. 2020;1(6):6–8. doi:10.1177/2055207620976244

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Sagaro GG, Battineni G, Amenta F. Barriers to Sustainable Telemedicine Implementation in Ethiopia: A Systematic Review. *Telemed Reports*. 2020;1(1):8–15. doi:10.1089/tmr.2020.0002



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Mittal M, Battineni G, Kumar P, Sharma P, Panwar A. IoT based image defogging system for road accident control during winters. In: Proceedings of the 2020 International Conference on Computing, Communication and Security, ICCCS 2020. Institute of Electrical and Electronics Engineers Inc.; 2020. doi:10.1109/ICCCS49678.2020.9277430

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Battineni G, Sagaro GG, Chintalapudi N, Amenta F. Conceptual Framework and Designing for a Seafarers' Health Observatory (SHO) Based on the Centro Internazionale Radio Medico (C.I.R.M.) Data Repository. *ScientificWorldJournal*. 2020 Dec 16;2020:8816517. doi: 10.1155/2020/8816517.

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Mirmoeini SM, Shooshtari SSM, Battineni G, Amenta F, Tayebati SK. Telepediatric assistance in Iran: Specialist and subspecialty challenges. *EAI Endorsed Trans Pervasive Heal Technol*. 2020;6(23). doi: 10.4108/eai.22-9-2020.166356

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Battineni G, Chintalapudi N, Karami V, Nittari G, Amenta F, Tayabati SK. Process mining case study approach: Extraction of unconventional event logs to improve performance in Hospital Information Systems (HIS) *Int J Comput Sci Inf Secur*. 2019;17(4):117.

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Chhetri B, Goyal LM, Mittal M, Battineni G. Estimating the prevalence of stress among Indian students during the COVID-19 pandemic: A cross-sectional study from India. *J Taibah Univ Med Sci*. 2021 Jan 18;16(2):260-267. doi: 10.1016/j.jtumed.2020.12.012.

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Battineni G, Pallotta G, Nittari G, Amenta F. Telemedicine framework to mitigate the impact of the COVID-19 pandemic. *J Taibah Univ Med Sci*. 2021 Apr;16(2):300-302. doi: 10.1016/j.jtumed.2020.12.010.

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Battineni G, Sagaro GG, Chintalapudi N, Di Canio M, Amenta F. Assessment of Awareness and Knowledge on Novel Coronavirus (COVID-19) Pandemic among Seafarers. *Healthcare*. 2021;9(2):120. doi:10.3390/healthcare9020120

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Nittari G, Battineni G, Messinetti M, Campanozzi L, Sirignano A. Critical reflections and solutions for health problems of Italian refugees. *Clin Ter*. 2021 Mar 15;172(2):158-162. doi: 10.7417/CT.2021.2304.

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Battineni G, Nittari G, Sirignano A, Amenta F. Are telemedicine systems effective healthcare solutions during the COVID-19 pandemic? *J Taibah Univ Med Sci*. 2021 Jun;16(3):305-306. doi: 10.1016/j.jtumed.2021.02.009.

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Sagaro GG, Dicanio M, Battineni G, Samad MA, Amenta F. Incidence of occupational injuries and diseases among seafarers: a descriptive epidemiological study based on contacts from onboard ships to the Italian Telemedical Maritime Assistance Service in Rome, Italy. *BMJ Open*. 2021 Mar 16;11(3):e044633. doi: 10.1136/bmjopen-2020-044633.

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Battineni G, Kumar S, Mittal M, Amenta F. COVID-19 vaccine onboard ships: current and future implications of seafarers. *Int Marit Health*. 2021;72(1):76-77. doi: 10.5603/IMH.2021.0010.

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Chintalapudi N, Battineni G, Amenta F. Sentimental Analysis of COVID-19 Tweets Using Deep Learning Models. *Infect Dis Rep*. 2021 Apr 1;13(2):329-339. doi: 10.3390/idr13020032.

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Chintalapudi, N., Battineni, G., Di Canio, M., Sagaro, G.G., & Amenta, F. (2021). Text mining with sentiment analysis on seafarers' medical documents. *International Journal of Information Management Data Insights*, 1, 100005. doi: 10.1016/j.jjime.2020.10000

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Battineni G. (2021) Machine Learning and Deep Learning Algorithms in the Diagnosis of Chronic Diseases. *Studies in Computational Intelligence*, vol 968. Springer, Singapore. https://doi.org/10.1007/978-981-16-0935-0_7

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Battineni G, Sagaro GG, Chintalapudi N, Amenta F, Tomassoni D, Tayebati SK. Impact of Obesity-Induced Inflammation on Cardiovascular Diseases (CVD). *Int J Mol Sci*. 2021 Apr 30;22(9):4798. doi: 10.3390/ijms22094798.

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Battineni G, Pallotta G, Nittari G, Chintalapudi N, Varlaro V, Amenta F, Development of a quality assessment tool for websites of the international aesthetic medicine societies, *Informatics in Medicine Unlocked*, 23(21), 2021, 100559, doi:10.1016/j.imu.2021.100559.

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Kansal AK, Gautam J, Chintalapudi N, Jain S, Battineni G. Google Trend Analysis and Paradigm Shift of Online Education Platforms during the COVID-19 Pandemic. *Infect Dis Rep*. 2021 May 12;13(2):418-428. doi: 10.3390/idr13020040.

41

Chakraborty T, Jamal RF, Battineni G, Teja KV, Marto CM, Spagnuolo G. A Review of Prolonged Post-COVID-19 Symptoms and Their Implications on Dental Management. *Int J Environ Res Public Health*. 2021 May 12;18(10):5131. doi: 10.3390/ijerph18105131.

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Sagaro GG, Battineni G, Di Canio M, Amenta F. Self-Reported Modifiable Risk Factors of Cardiovascular Disease among Seafarers: A Cross-Sectional Study of Prevalence and Clustering. *J Pers Med*. 2021 Jun 4;11(6):512. doi: 10.3390/jpm11060512.

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Mittal M, Battineni G, Singh D, Nagarwal T, Yadav P. Web-based chatbot for Frequently Asked Queries (FAQ) in Hospitals. *J Taibah Univ Med Sci*. 2021 Jul 4;16(5):740-746. doi: 10.1016/j.jtumed.2021.06.002.

**44**

Chintalapudi N, Battineni G, Amenta F. Second wave of COVID-19 in Italy: Preliminary estimation of reproduction number and cumulative case projections. *Results Phys.* 2021 Sep;28:104604. doi: 10.1016/j.rinp.2021.

45

Battineni G, Sagaro GG, Chintalapudi N, Amenta F. The Benefits of Telemedicine in Personalized Prevention of Cardiovascular Diseases (CVD): A Systematic Review. *J Pers Med.* 2021 Jul 14;11(7):658. doi: 10.3390/jpm11070658.

46

Carotenuto A, Traini E, Fasanaro AM, Battineni G, Amenta F. Tele-Neuropsychological Assessment of Alzheimer's Disease. *J Pers Med.* 2021 Jul 21;11(8):688. doi: 10.3390/jpm11080688.

47

Sawa D, Battineni G, Amenta F, Nittari G. Hypersensitivity reaction to hyaluronic acid dermal filler after the Pfizer vaccination against SARS-CoV-2 virus. *Int J Infect Dis.* 2021 Sep 28;S1201-9712(21)00773-6. doi: 10.1016/j.ijid.2021.09.066.

48

Badr C, Spagnuolo G, Amenta F, Khairallah C, Mahdi SS, Daher E, Battineni G, Baba NZ, Zogheib T, Qasim SSB, Daher T, Chintalapudi N, Zogheib CM. A Two-Year Comparative Evaluation of Clinical Performance of a Nanohybrid Composite Resin to a Flowable Composite Resin. *J Funct Biomater.* 2021 Sep 9;12(3):51. doi: 10.3390/jfb12030051.

49

Battineni, G.; Hossain, M.A.; Chintalapudi, N.; Traini, E.; Dhulipalla, V.R.; Ramasamy, M.; Amenta, F. Improved Alzheimer's Disease Detection by MRI Using Multimodal Machine Learning Algorithms. *Diagnostics* **2021**, *11*, 2103. <https://doi.org/10.3390/diagnostics11112103>

50

Sawa D, Battineni G, Amenta F, Nittari G. Hypersensitivity reaction to hyaluronic acid dermal filler after the Pfizer vaccination against SARS-CoV-2. *Int J Infect Dis.* 2021 Dec;113:233-235. doi: 10.1016/j.ijid.2021.09.066.

51

Teja KV, Ramesh S, Battineni G, Vasundhara KA, Jose J, Janani K. The effect of various in-vitro and ex-vivo parameters on irrigant flow and apical pressure using manual syringe needle irrigation: Systematic review. *Saudi Dent J.* 2022 Feb;34(2):87-99. doi: 10.1016/j.sdentj.2021.12.001.

52

Mahdi SS, Allana R, Battineni G, et al. The promise of telemedicine in Pakistan: A systematic review. *Health Science Reports.* 2022;5(1):e438. doi:10.1002/HSR2.438

53

Bhimavarapu U, Battineni G. Automatic Microaneurysms Detection for Early Diagnosis of Diabetic Retinopathy Using Improved Discrete Particle Swarm Optimization. *Journal of Personalized Medicine.* 2022; 12(2):317. <https://doi.org/10.3390/jpm12020317>

**54**

Chintalapudi N, Battineni G, Hossain MA, Amenta F. Cascaded Deep Learning Frameworks in Contribution to the Detection of Parkinson's Disease. *Bioengineering*. 2022; 9(3):116. <https://doi.org/10.3390/bioengineering9030116>

55

Chintalapudi N, Angeloni U, Battineni G, di Canio M, Marotta C, Rezza G, Sagaro GG, Silenzi A, Amenta F. LASSO Regression Modeling on Prediction of Medical Terms among Seafarers' Health Documents Using Tidy Text Mining. *Bioengineering*. 2022; 9(3):124. <https://doi.org/10.3390/bioengineering9030124>

56

Battineni G, Chintalapudi N, Zacharewicz G. Process Mining in Clinical Practice: Model Evaluations in the Central Venous Catheter Installation Training. *Algorithms*. 2022; 15(5):153. <https://doi.org/10.3390/a15050153>

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Battineni G, Chintalapudi N, Amenta F. Maritime Telemedicine: Design and Development of an Advanced Healthcare System Called Marine Doctor. *Journal of Personalized Medicine*. 2022; 12(5):832. <https://doi.org/10.3390/jpm12050832>

58

Battineni G, Hossain MA, Chintalapudi N, Amenta F. A Survey on the Role of Artificial Intelligence in Biobanking Studies: A Systematic Review. *Diagnostics*. 2022; 12(5):1179. <https://doi.org/10.3390/diagnostics12051179>

59

Bhimavarapu U, Battineni G. Skin Lesion Analysis for Melanoma Detection Using the Novel Deep Learning Model Fuzzy GC-SCNN. *Healthcare*. 2022; 10(5):962. <https://doi.org/10.3390/healthcare10050962>

60

Bhimavarapu U, Chintalapudi N, Battineni G. A Fair and Safe Usage Drug Recommendation System in Medical Emergencies by a Stacked ANN. *Algorithms*. 2022; 15(6):186. <https://doi.org/10.3390/a15060186>

61

Khandelwal A, Janani K, Teja K, Jose J, Battineni G, Riccitiello F, Valletta A, Palanivelu A, Spagnuolo G. Periapical Healing following Root Canal Treatment Using Different Endodontic Sealers: A Systematic Review. *Biomed Res Int*. 2022 Jul 8;2022:3569281. doi: 10.1155/2022/3569281.

62

Pandey MK, Saini A, Subbiah K, Chintalapudi N, Battineni G. Improved Carpooling Experience through Improved GPS Trajectory Classification Using Machine Learning Algorithms. *Information*. 2022; 13(8):369. <https://doi.org/10.3390/info13080369>

63

Battineni G, Chintalapudi N, Hossain MA, Losco G, Ruocco C, Sagaro GG, Traini E, Nittari G, Amenta F. Artificial Intelligence Models in the Diagnosis of Adult-Onset Dementia Disorders: A Review. *Bioengineering*. 2022; 9(8):370. <https://doi.org/10.3390/bioengineering9080370>



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Bhimavarapu U, Sreedevi M, Chintalapudi N, Battineni G. Physical Activity Recommendation System Based on Deep Learning to Prevent Respiratory Diseases. *Computers*. 2022; 11(10):150. <https://doi.org/10.3390/computers11100150>

65

Neeru Mago, Mamta Mittal, Usharani Bhimavarapu & Gopi Battineni (2022) Optimized outdoor parking system for smart cities using advanced saliency detection method and hybrid features extraction model, *Journal of Taibah University for Science*, 16:1, 401-414, DOI: [10.1080/16583655.2022.2068325](https://doi.org/10.1080/16583655.2022.2068325)

BOOK CHAPTERS

Choline-containing phospholipids and treatment of adult-onset dementia disorders. In: Diagnosis and Management in Dementia

Amenta F, Battineni G, Traini E, Pallotta G. Choline-containing phospholipids and treatment of adult-onset dementia disorders. In: *Diagnosis and Management in Dementia*. ; 2020. doi:10.1016/b978-0-12-815854-8.00030-6

Predictive and Preventive Measures for Covid-19 Pandemic

Battineni G, Chintalapudi N, Amenta F. Epidemic Models in Prediction of COVID-19. In: *Predictive and Preventive Measures for Covid-19 Pandemic*. Springer, Singapore; 2021:19-34. doi: 10.1007/978-981-33-4236-1_2

Data Visualization in the Transformation of Healthcare Industries

Battineni, G., Mittal, M., Jain, S. (2021). Data Visualization in the Transformation of Healthcare Industries. In: Roy, S., Goyal, L.M., Mittal, M. (eds) *Advanced Prognostic Predictive Modelling in Healthcare Data Analytics. Lecture Notes on Data Engineering and Communications Technologies*, vol 64. Springer, Singapore. https://doi.org/10.1007/978-981-16-0538-3_1

Machine Learning and Deep Learning Algorithms in the Diagnosis of Chronic Diseases

Battineni, G. (2021). Machine Learning and Deep Learning Algorithms in the Diagnosis of Chronic Diseases. In: Bandyopadhyay, M., Rout, M., Chandra Satapathy, S. (eds) *Machine Learning Approaches for Urban Computing. Studies in Computational Intelligence*, vol 968. Springer, Singapore. https://doi.org/10.1007/978-981-16-0935-0_7

Cognitive computing in human activity recognition with a focus on healthcare

S. Ravi Shankar, Gopi Battineni, Mamta Mittal, Chapter 3 - Cognitive computing in human activity recognition with a focus on healthcare, Editor(s): Mamta Mittal, Rajiv Ratn Shah, Sudipta Roy, In *Cognitive Data Science in Sustainable Computing*,

Cognitive Computing for Human-Robot Interaction, Academic Press, 2021, Pages 51-67, ISBN 9780323857697,

<https://doi.org/10.1016/B978-0-323-85769-7.00006-9>.

Telehealth and Pharmacological Strategies of COVID-19 Prevention: Current and Future Developments

Battineni, G., Nittari, G., Pallotta, G., Sagaro, G.G., Chintalapudi, N., Amenta, F. (2022). Telehealth and Pharmacological Strategies of COVID-19 Prevention: Current and Future Developments. In: Azar, A.T., Hassanien, A.E. (eds) *Modeling, Control and Drug Development for COVID-19 Outbreak Prevention*.



Studies in Systems, Decision and Control, vol 366. Springer, Cham. https://doi.org/10.1007/978-3-030-72834-2_26

Brain tumor classifications by gradient and XG boosting machine learning models

Chintalapudi N, Battineni G, Goyal LM, Amenta F, Brain tumor classifications by gradient and XG boosting machine learning models, Editor(s): Sudipta Roy, Lalit Mohan Goyal, Valentina E. Balas, Basant Agarwal, Mamta Mittal, In *Advanced Studies in Complex Systems: Theory and Applications, Predictive Modeling in Biomedical Data Mining and Analysis*, Academic Press, 2022, Pages 123-136, ISBN 9780323998642, <https://doi.org/10.1016/B978-0-323-99864-2.00014-7>.

Opportunities and challenges in healthcare with the management of big biomedical data

Battineni G, Chapter 20 - Opportunities and challenges in healthcare with the management of big biomedical data,

Editor(s): Pantea Keikhosrokiani, *Big Data Analytics for Healthcare*, Academic Press, 2022, Pages 265-275, ISBN 9780323919074, <https://doi.org/10.1016/B978-0-323-91907-4.00017-0>.

Psychological Stress and Mental Health Among Seafarers

Pallotta, G., Battineni, G., Nittari, G., Amenta, F. (2022). Psychological Stress and Mental Health Among Seafarers. In: Gupta, D., Polkowski, Z., Khanna, A., Bhattacharyya, S., Castillo, O. (eds) *Proceedings of Data Analytics and Management . Lecture Notes on Data Engineering and Communications Technologies*, vol 90. Springer, Singapore. https://doi.org/10.1007/978-981-16-6289-8_1

Proactive Digital Mental Healthcare Using ICT-Based Psychiatry Services to Prevent Cognitive Diseases During COVID Environment

Ramasamy, M., Battineni, G. (2022). Proactive Digital Mental Healthcare Using ICT-Based Psychiatry Services to Prevent Cognitive Diseases During COVID Environment. In: Mittal, M., Battineni, G. (eds) *Information and Communication Technology (ICT) Frameworks in Telehealth. TELe-Health*. Springer, Cham. https://doi.org/10.1007/978-3-031-05049-7_5

Telemedicine Services and Frameworks During COVID 19: A Case Study of Seafarers

Battineni, G., Chintalapudi, N., Hossain, M.A., Amenta, F. (2022). Telemedicine Services and Frameworks During COVID 19: A Case Study of Seafarers. In: Mittal, M., Battineni, G. (eds) *Information and Communication Technology (ICT) Frameworks in Telehealth. TELe-Health*. Springer, Cham. https://doi.org/10.1007/978-3-031-05049-7_7

Alzheimer's Disease Classification Using Feed Forwarded Deep Neural Networks for Brain MRI Images

Battineni, G., Hossain, M.A., Chintalapudi, N., Amenta, F. (2022). Alzheimer's Disease Classification Using Feed Forwarded Deep Neural Networks for Brain MRI Images. In: Mittal, M., Goyal, L.M. (eds) *Predictive Analytics of Psychological Disorders in Healthcare. Lecture Notes on Data Engineering and Communications Technologies*, vol 128. Springer, Singapore. https://doi.org/10.1007/978-981-19-1724-0_14



CONFERENCES AND SEMINARS

International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing

Mittal, M., Battineni, G., Ahmad, W., Kumar, N., Upreti, R. (2022). Mathematical Scanner (M-Scan) Mobile Application for Solving Simple Math Equations. In: Khanna, A., Gupta, D., Bhattacharyya, S., Hassanien, A.E., Anand, S., Jaiswal, A. (eds) International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1388. Springer, Singapore. https://doi.org/10.1007/978-981-16-2597-8_29

IEEE International Conference on Computing, Communication and Security

[Patna, India, 2021]

M. Mittal, G. Battineni, P. Kumar, P. Sharma and A. Panwar, "IoT based Image Defogging System for road accident control during winters," *2020 5th International Conference on Computing, Communication and Security (ICCCS)*, 2020, pp. 1-5, doi: 10.1109/ICCCS49678.2020.9277430.

14th International Joint Conference on Biomedical Engineering Systems and Technologies - BIOIMAGING

[Vienna, Austria , 2021]

Battineni, G.; Chintalapudi, N.; Amenta, F. and Traini, E. (2021). **Deep Learning Type Convolution Neural Network Architecture for Multiclass Classification of Alzheimer's Disease**. In *Proceedings of the 14th International Joint Conference on Biomedical Engineering Systems and Technologies - BIOIMAGING*, ISBN 978-989-758-490-9; ISSN 2184-4305, pages 209-215. DOI: 10.5220/0010378602090215

12th International Conference on Agents and Artificial Intelligence

[Malta, 2020]

Battineni, G.; Chintalapudi, N. and Amenta, F. (2020). **Comparative Machine Learning Approach in Dementia Patient Classification using Principal Component Analysis**. In *Proceedings of the 12th International Conference on Agents and Artificial Intelligence - Volume 2: ICAART*, ISBN 978-989-758-395-7; ISSN 2184-433X, pages 780-784. DOI: 10.5220/0009096907800784

EDITORIAL BOOK

Mittal M, Battineni G, eds. Information and Communication Technology (ICT) Frameworks in Telehealth. Published online 2022. doi:10.1007/978-3-031-05049-7

This book aims to explore technology solutions and systems to help people in remote areas in order to improve medical care. Access to healthcare services is critical to good health, but residents of remote areas face a variety of access barriers. The obstacles faced by healthcare providers and patients in rural areas are very different from those in urban areas. This could be caused by economic factors, cultural and social differences, educational deficiencies, lack of recognition by legislators, and the sheer isolation of living in inland areas, all of which conspire to create health care disparities and hinder people living in inland areas in their struggle to lead normal, healthy lives. Based on available analyses, further progress is needed to promote appropriateness of care, address geographic imbalances in healthcare use, and prevent the spread of risk factors including chronic diseases and regular health problems. To eradicate these problems, it is essential to develop a telemedicine system with ICT integration that will help patients in inland areas by using contemporary technologies: it would thus be possible for patients to meet their goals using these systems even without the presence of a physician since authenticated prescriptions are generated by doctors and can be transmitted to patients electronically.



Link: <https://link.springer.com/book/10.1007/978-3-031-05049-7>

AUTHORED BOOK

Mittal M, Battineni G, Usharani B, Goyal LM. Text Analysis with Python: A Research Oriented Guide. Text Anal with Python A Res Oriented Guid. Published online August 11, 2022. doi:10.2174/97898150496021220101

The book focused on the latest research in the field of text mining using python code. The main objective of the book is to apply various machine learning and deep learning techniques to textual data. Natural language processing and fuzzy rule generation are also discussed in detail along with a basic introduction to python, data handling, and shaping. Various data sets are used to show various techniques of text mining in the different research domains. This book is beneficial for the audience who want to work in the field related to text mining. In the book, the authors have presented the content of the book in a simple and understandable manner to the reader by using the step-by-step implementation of different algorithms.

Link: https://benthamsience.com/ebook_volume/3380

REVIEWER

Contributed as a reviewer in important conferences,

Write here the description...

Peer reviewer

Reviewer for 42 articles from Elsevier, MDPI, Dove Press, Wiley, Plos One, Nature, Springer, and other journals and international publishers.

PROJECTS

Development of telemedical assistance system for remote workers like seafarers

[2018 – 2022]

The purpose of the project entitled “MARINE DOCTOR” is to simplify the medical assistance of seafarers and to develop software, which is patients of seafarer’s groups. The present software is friendly simple, fast and compatible with any computers. It deals with the collection of patient’s information, diagnosis details, etc. Traditionally, it was done manually. The main function of the system is to register and store seafarers and doctor details and guide the user to send a medical request with a simple form of a questionnaire. We can also retrieve these details as and when required, and to manipulate these details meaningfully System input contains patient details, diagnosis details, while system output is to get these details on to the screen. The Marine Doctor System can be entered using a username and password specially provided by the TMAS centres. Both it is accessible by an administrator or by ship staff, and simply they can add personal data into the database. The data are well protected for personal use and makes the data processing very fast.

Machine learning in diagnosis of chronic diseases

[30/06/2018 – Current]

This project is aim to finding, predicting, and classification of diagnosis on chronic diseases



Enabling Consumer to become Prosumer in the Energy transition Era (ECPE)

[01/09/2020 – Current]

A project called ECPE – Enabling Consumer to become Prosumer in Energy transition era – is one of the winners. All projects started in July 2020. The purpose of the project is to coordinate the various norms, collecting and promoting best practices in the interpretation and application of the various forms. The project will analyze the prosumers behaviours from multiple perspectives (for this reason is very important the choose a multidisciplinary approach from all partners). The ECPE project will enhance the use of collaborative behaviour in the energy consumption and production market.

Link: <https://ecpe.unicam.it/en/node/1>

COMMUNICATION AND INTERPERSONAL SKILLS

Project Management Using Agile

Business Process Mining

Knowledge of research methodologies

Excellent knowledge in writing and presenting reports

DIGITAL SKILLS

Microsoft Office / information processing / Paint Shop Pro / Teamviewer / several e-mails packages

ORGANISATIONAL SKILLS

Have led several seminars for undergraduates in the computer science department.

Worked as project lead at degree level

Activate student participating award at college education

Chaired International Conferences and delivered invited talks

RECOMMENDATIONS

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