



Nalini Chintalapudi

ABOUT ME

I am an enthusiastic, self-motivated, reliable, responsible, and hard-working person. I am a mature team worker and adaptable to all challenging situations. I am able to work well both in a team environment as well as using my own initiative. I am able to work well under pressure and adhere to strict deadlines.

WORK EXPERIENCE

[01/03/2015 – 18/12/2018]

Teaching assistant

Malla Reddy Institute of Engineering and Technology

City: Hyderabad

Country: India

Involved in the Lecture Sessions assigned by the Head of the Department as per the JNT University Syllabus. Delivering the Computer Science Subject Concepts with the analogy, role-play, and interactive sessions. Core Subjects involved in teaching activities are Artificial Intelligence, Data Mining, and Computer Organization (10 hours/week)

EDUCATION AND TRAINING

[10/12/2019 – 08/03/2023]

Ph.D. in Computer Science and Mathematics

University of Camerino

Address: Italy

Field(s) of study: Information and Communication Technologies: *Information and Communication Technologies (ICTs) not further defined*

Final grade: Excellent **Level in EQF:** EQF level 8

Type of credits: ECTS **Number of credits:** 180

Thesis: Machine learning algorithms for improving the health care of seafarers through medical text classification and predicting the onsite occurrence of diseases
Machine Learning, Artificial intelligence, text mining, sentimental analysis, regression modeling, predictive analytics

[01/09/2013 – 31/08/2015]

Masters of Techonlogy in Computer Science

Jawaharlal Nehru Technological University

Address: India

Field(s) of study: Computer Science

Final grade: First class with distinciton **Level in EQF:** EQF level 7

[01/08/2009 – 30/04/2013]

Bachelors of Techonlogy in Computer Science

Jawaharlal Nehru Technological University

Address: Kakinada, India

Field(s) of study: Information and Communication Technologies

Level in EQF: EQF level 6

LANGUAGE SKILLS

Mother tongue(s): Telugu

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Italian

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Hindi

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

DIGITAL SKILLS

Python | R statistical | Machine LearningAI | Microsoft .Net (C#) (Basic) | Familiarity with scikitlearn | TensorFlow Machine Learning libraries

PUBLICATIONS

2019

1. Battineni G, Chintalapudi N, Amenta F. Machine learning in medicine: Performance calculation of dementia prediction by support vector machines (SVM). *Informatics Med Unlocked*. 2019;16:100200. doi:10.1016/j.IMU.2019.100200
2. Battineni G, Di Canio M, Chintalapudi N, Amenta F, Nittari G. Development of physical training smartphone application to maintain fitness levels in seafarers. *Int Marit Health*. 2019;70(3):180-186. doi:10.5603/IMH.2019.0028.
3. Battineni G, Chintalapudi N, Amenta F, Tayebati SK. Report on market analysis and prevention 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
4. 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*. Published online 2019. doi:10.3390/machines7040074
5. 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) Corresponding Author. *Int J Comput Sci Inf Secur*. 2019;17(4):117. <https://sites.google.com/site/ijcsis/>

2020

1. Battineni G, Baldoni S, Chintalapudi N, Sagaro GG, Pallotta G, Nittari G, Amenta F. Factors affecting the quality and reliability of online health information. *Digit Health*. 2020 Aug 30;6:2055207620948996. doi:10.1177/2055207620948996.
2. 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.
3. 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.
4. 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. Epub 2020 May 11.

5. Mittal M, Battineni G, Goyal LM, Chhetri B, Oberoi SV, Chintalapudi N, Amenta F. 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.
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. Epub 2020 Apr 13.
7. 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 Jul 8;9(7):2146. doi: 10.3390/jcm9072146.
8. 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.
9. 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
10. 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 on January 18, 2020. doi:10.1016/j.aci.2020.01.001
11. 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
12. Battineni G, Chintalapudi N, Amenta F. Is Really Weather or Tropical Conditions Affects an Outbreak of COVID-19: A Brief Report. *Pharm Biomed Res*. Published online 2020.
13. 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

2021

1. 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.
2. 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.
3. 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.
4. Battineni G, Hossain MA, Chintalapudi N, Traini E, Dhulipalla VR, Ramasamy M, Amenta F. Improved Alzheimer's Disease Detection by MRI Using Multimodal Machine Learning Algorithms. *Diagnostics (Basel)*. 2021 Nov 13;11(11):2103. doi: 10.3390/diagnostics11112103.
5. 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 (Basel)*. 2021 Jan 25;9(2):120. doi:10.3390/healthcare9020120.
6. 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.2021.104604. Epub 2021 Jul 27.
7. 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.
8. 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.

9. Battineni G, Pallotta G, Nittari G, Chintalapudi N, Varlaro V, Amenta F. Development of quality assessment tool for websites of the international aesthetic medicine societies. *Informatics Med Unlocked*.2021;23. doi:10.1016/j.IMU.2021.100559

2022

1. Battineni G, Hossain MA, Chintalapudi N, Amenta F. A Survey on the Role of Artificial Intelligence in Biobanking Studies: A Systematic Review. *Diagnostics (Basel)*. 2022 May 9;12(5):1179. doi: 10.3390/diagnostics12051179.
2. 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 (Basel)*. 2022 Aug 5;9(8):370. doi: 10.3390/bioengineering9080370.
3. Chintalapudi N, Battineni G, Hossain MA, Amenta F. Cascaded Deep Learning Frameworks in Contribution to the Detection of Parkinson's Disease. *Bioengineering (Basel)*. 2022 Mar 12;9(3):116. doi:10.3390/bioengineering9030116.
4. Battineni G, Chintalapudi N, Amenta F. Maritime Telemedicine: Design and Development of an Advanced Healthcare System Called Marine Doctor. *J Pers Med*. 2022 May 20;12(5):832. doi: 10.3390/jpm12050832.
5. 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 (Basel)*. 2022 Mar 17;9(3):124. doi:10.3390/bioengineering9030124.
6. Battineni G, Nittari G, Pallotta G, Sagaro GG, Chintalapudi N, Amenta F. Telehealth and Pharmacological Strategies of COVID-19 Prevention:Current and Future Developments. Published online 2022:897-927.doi:10.1007/978-3-030-72834-2_26
7. 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>

2023

1. Battineni G, Hossain MA, Chintalapudi N, et al. Brain Imaging Studies Using Deep Neural Networks in the Detection of Alzheimer's Disease. *OBM Geriatr*. 2023;07(01): 1-10. doi:10.21926/OBM.GERIATR.2301220
2. Chintalapudi, N., Dhulipalla, V. R., Battineni, G., Rucco, C. ., & Amenta, F. . (2023). Voice Biomarkers for Parkinson's Disease Prediction Using Machine Learning Models with Improved Feature Reduction Techniques. *Journal of Data Science and Intelligent Systems*. <https://doi.org/10.47852/bonviewJDSIS3202831>
3. Bhimavarapu U, Battineni G, Chintalapudi N. Improved Optimization Algorithm in LSTM to Predict Crop Yield. *Computers*. 2023; 12(1):10. <https://doi.org/10.3390/computers12010010>

CONFERENCES AND SEMINARS

2020

1. 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
2. M. Arora, L. M. Goyal, N. Chintalapudi and M. Mittal, "Factors affecting digital education during COVID-19: A statistical modeling approach," *2020 5th International Conference on Computing, Communication and Security (ICCCS)*, Patna, India, 2020, pp. 1-5, doi: 10.1109/ICCCS49678.2020.9277370.

2021

Battineni G, Chintalapudi N, Amenta F, Traini E. Deep learning type convolution neural network architecture for multiclass classification of Alzheimer's disease. *BIOIMAGING*

RECOMMENDATIONS

Name: Prof Francesco Amenta
Phone number: (+39) 0737403311
Email: francesco.amenta@unicam.it

Scuola Scienze del Farmaco e dei Prodotti della Salute
Università di Camerino
Centro Telemedicina e Telefarmacia
Via Madonna delle Carceri 9, 62032 Camerino (Italy)

PROJECTS

Designing research project

As part of master's program, I worked about one year on my research project, as part of this it is important to design project based on client requirements. Therefore, most of the time, I spent in a computer laboratory and participated in meetings with project director which helps me to enhance my research skills more insight. After finish, my masters I would like to explore my computational knowledge in a reputed firm, so I decided to plan my career in teaching in an engineering institution. As part work, it is mandatory to involving research activities with other professors more often. After having three years in teaching field I thoroughly having in-depth knowledge of how to make research in a fruitful manner. I contributed most of my work in writing papers on artificial intelligence

ORGANISATIONAL SKILLS

Talks

1. Have led several seminars for undergraduates in the computer science department.
2. Worked as project lead at degree level Activate student participating award at a college education
3. Chaired International Conferences and delivered invited talks

BOOK CHAPTERS

List

1. Battineni G, Chintalapudi N, Amenta F. Epidemic Models in Prediction of COVID-19. Published online 2021:19-34. doi:10.1007/978-981-33-4236-1_2
2. Battineni G, Nittari G, Pallotta G, Sagaro GG, Chintalapudi N, Amenta F. Telehealth and Pharmacological Strategies of COVID-19 Prevention: Current and Future Developments. *Stud Syst Decis Control*. 2022;366:897-927. doi:10.1007/978-3-030-72834-2_26
3. Battineni G, Hossain MA, Chintalapudi N, Amenta F. Alzheimer's Disease Classification Using Feed Forwarded Deep Neural Networks for Brain MRI Images. *Lect Notes Data Eng Commun Technol*. 2022;128:269-283. doi:10.1007/978-981-19-1724-0_14
4. Battineni G, Chintalapudi N, Hossain MA, Amenta F. Telemedicine Services and Frameworks During COVID 19: A Case Study of Seafarers. Published online 2022:115-131. doi:10.1007/978-3-031-05049-7_7
5. Chintalapudi N, Battineni G, Goyal LM, Amenta F. Brain tumor classifications by gradient and XG boosting machine learning models. *Predict Model Biomed Data Min Anal*. Published online January 1, 2022:123-136. doi:10.1016/B978-0-323-99864-2.00014-7

REVIEWER

Journals

Contributed as a reviewer in important conferences, and peer reviewer at international publishers such as Elsevier, MDPI, Dove Press, Wiley, Plos one, Nature, Springer etc.