IGNITE 2023



A DAILY NEWSLETTER

Editor in Chief

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Lecture Notes in Networks and Systems 789 P. P. Joby Marcelo S. Alencar Przemyslaw Falkowski-Gilski Editors IoT Based Control Networks and Intelligent Systems edings of 4th ICICNIS 2023 ⁄ Springer

High-Performance Intelligent System for Real-Time Medical Image Using Deep Learning and Augmented Reality



G. A. Senthil, R. Prabha, R. Rajesh Kanna, G. Umadevi Venkat, and R. Deepa

Abstract Evolving new diseases demand the need for technology to identify the disease in an effective way. Medical imaging in the field of disease identification helps to identify the disease by scanning the human parts, thereby preventing the increased rate of deaths. Deep learning algorithms make it easier to identify and analyze disease efficiently through medical imaging. The high performance of these models is needed for the disease to be predicted with accurate results. The prediction rate of the disease can be increased by the efficient use of deep learning modules and algorithms. This research involves the use of deep learning models in identifying brain hemorrhage and retinopathy diseases through deep learning algorithms. The deep learning algorithms AlexNet and convolutional neural network (CNN) with the accuracy of 90% and 96%, respectively, are employed for the detection of brain hemorrhage, and ResNet-50 and CNN with accuracy of 70% and 92%, respectively, are used for the identification of retinopathy. The output of the model is displayed using augmented reality (AR), which makes it interactive for the user to analyze the results. The AR display is achieved using the unity engine along with the Vuforia package and using the barracuda package for importing the deep learning model into

G. A. Senthil (⊠)

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R. Rajesh Kanna - G. Umadevi Venkat Department of Computer Science and Engineering, Agni College of Technology, Chennai, India e-mail: rkanushaquafarms@gmail.com

G. Umadevi Venkat e-mail: deviuma1909@gmail.com

R. Deepa

Department of Computer Science and Engineering, Vels Institute of Science and Technology and Advanced Studies, Chennai, India e-mail: deeparse@velsuniv.ac.in

© The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2024 P. P. Joby et al. (eds.), IoT Based Control Networks and Intelligent Systems, Lecture Notes in Networks and Systems 789, https://doi.org/10.1007/978-981-99-6586-1_8

Mrs. G. Umadevi, Assistant Professor, Department of Computer Science and Engineering, published a research "IOT-Based Control titled Networks paper Intelligent Systems" (Springer book series) November 2023.

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Taylor & France

RESEARCH ARTICLE



Murugan, Associate Professor Dr.P. and Head. Department of Chemical Engineering, has published a paper titled 'Enhancing mechanical and functional properties of LM25 alloy through squeeze cast hybrid nano composite incorporating breadfruit seed husk ash and graphite nanoparticles', in the International Journal of Cast Metals Research-SCIE Indexed Journal in the month of November

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Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Comperce & Industry,

(http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

GEOGRAPHICAL INDICATIONS
Application Details
202341079532
ORDINARY APPLICATION
23/11/2023
1 . Dr. ISHWARYA M. V 2 . Dr. D. ADHIMUGA SIVASAKTHI 3 . Dr. A. SATHIYARAJ 4 . M. MAHARASI 5 . B BALASAIGAYATHRI 6 . RAJA RAJESWARI P U 7 . P. MENAGA 8 . Dr. R RATHEESH 9 . S RAMAMOORTHY
MOBILE APPLICATION BASED SLEEP APNOEA MANAGEMENT SYSTEM FOR BIOMEDICAL EXERTION USING CLOUD SERVER
BIO-MEDICAL ENGINEERING
aidshod@act.edu.in
01/12/2023

Application Status

Dr. R. Ratheesh, Assistant Professor, Electronics and Communication Engineering, has published a patent application, "Mobile Application based Sleep Apnoea Management System for Biomedical Exertion using Cloud Server" on December 2023.

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Dr. Arul Kulandaivel, HoD, Department of Science and Humanities, has published a research paper, "In silica study of traditional Chinese medicinal compounds targeting Alzheimer's disease amyloid beta-peptide (1-42) " in Chemical Physics Impact, WoS Publications, Listed in Anna University Annexture-I Journal with Impact factor 2.2.

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FACULTY PARTICIPATION



Mrs. Siva Sakthi A, Assistant Professor, Department of Biomedical Engineering, has participated in a one-week development online professional programme "Neurorehabilitation **Stroke** Management" and organized by the Department of Biomedical Engineering Karpagam Academy of Higher Education from at November 20th November to 25th November, 2023.

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Elite

EL Online Certification



This certificate is awarded to

ANUVARSHINI R B

for successfully completing the course

Experimental Biotechnology

with a consolidated score of

Online Assignments | 22.25/25 | Proctored Exam | 37.75/75

Total number of candidates certified in this course: 589

Jul-Oct 2023 (12 week course)



Indian Institute of Technology Guwahati



Anuvarshini R.B., II-year student, Department of Biomedical Engineering, has successfully completed the NPTEL Certification 12-week course "Experimental Biotechnology," having Elite under the mentorship of Dr. Binu Clara with an aggregate score of 60%.

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ne Certification (Funded by the MoE, Govt. of India)



This certificate is awarded to

SHIVANI

for successfully completing the course

Experimental Biotechnology

with a consolidated score of

Online Assignments 20.97/25 | Proctored Exam | 35.25/75

Total number of candidates certified in this course: 589

Jul-Oct 2023

(12 week course)





Indian Institute of Technology Guwahati

Roll No: NPTEL23BT56S833506215

To verify the certificate



No. of credits recommended: 3 or 4

Shivani, II year student in the Department of Biomedical Engineering, has successfully completed the Certification 12-week "Experimental course on Biotechnology" under the mentorship of Dr. Binu Clara with an aggregate score of 56%.

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NPTEL Online Certification



This certificate is awarded to LAVANYA E

for successfully completing the course

Experimental Biotechnology

with a consolidated score of

Online Assignments 21/25

Proctored Exam

35.25/75

Total number of candidates certified in this course: 589

Jul-Oct 2023

(12 week course)



Indian Institute of Technology Guwahati



Roll No: NPTEL23BT56S833506169

To verify the certificate

No. of credits recommended: 3 or 4

student Lavanya in the Ε. II-year Department Biomedical Engineering, has successfully completed the NPTEL Certification 12-week course on "Experimental **Biotechnology**" under the mentorship of Dr. Binu Clara with an aggregate score of 56%.

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STUDENT ACHIEVEMENT



Swetha H., II year student in the Department of Biomedical Engineering, has successfully completed the NPTEL Certification 12-week course on "Experimental Biotechnology" under the mentorship of Dr. Binu Clara with an aggregate score of 50%.

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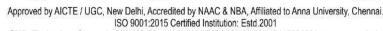


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A TO













This is to certify that

SONU KUMAR PODDAR

has successfully completed the **AI Fluency training on All About AI** offered by Naan Mudhalvan in partnership with Microsoft and conducted by Infispark Foundation on December 09, 2023.







Mr. Sonu Kumar Poddar, a II-year student of mechanical engineering, has successfully completed the AI Fluency training on All About AI offered by Naan Mudhalvan on December 09, 2023.

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This is to certify that

Sanjay kanna P

has successfully completed the Al Fluency training on All About Al offered by Naan Mudhalvan in partnership with Microsoft and conducted by Infispark Foundation on December 09, 2023.







Sanjay Kanna P, a II-year student from Mechanical Engineering, has successfully completed the AI fluency training on All About AI offered by Naan Mudhalvan on December 9, 2023.

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CERTIFICATE OF COMPLETION

Presented to

RISHIKUMAR S

For successfully completing a free online course

Data Structures in C



Provided by

Great Learning Academy

(On December 2023)

To verify this certificate visit verify.mygreatlearning.com/KYAKBEET

Rishikumar S., Department of Electrical and Electronics Engineering, II year, has successfully completed an online course on "Data Structures in C" on the Great Learning online platform on December 11, 2023.

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CERTIFICATE OF COMPLETION

Presented to

Banupriya

For successfully completing a free online course PowerPoint for Beginners

Provided by

Great Learning Academy

(On November 2023)

o verify this certificate visit verify.mygreatlearning.com/KFCRVEKJ

Banupriya, Department of Electrical and Electronics Engineering, II year, has successfully completed an online course on "Power Point for Beginners" on the Great Learning online platform on 11.12.2023.

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NATION -ACCRI







CERTIFICATE OF COMPLETION

Presented to

K.Thirumalaivasan

For successfully completing a free online course

Data Science Foundations



Provided by

Great Learning Academy

(On November 2023)

To verify this certificate visit verify.mygreatlearning.com/JMVQYVBM

K.Thirumalaivasan, Department of Electrical and Electronics Engineering, II year, has successfully completed an online course on "Data Science Foundations" on the Great Learning online platform on December 11, 2023.

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STUDENT PARTICIPATION



Jayashree V, II Year, Electronics and Communication Engineering, has participated in the **Hack-Proof Digital Nagrik Quiz** organized by the Indian Cyber Crime Coordination Centre.

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STUDENT PARTICIPATION



Vignesh **S.,** II Year, Electronics Communication Engineering, has participated the Hack-Proof Digital Nagrik Indian Cyber the organized by Crime Coordination Centre.

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