



Proceedings of **DRISHTI – 2025**

A New Era in Management & Technology

3rd International Conference

9th August 2025



Organised by

VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY

[A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]

[Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi & Recognized by Govt. of Karnataka]

NEHRUNAGAR, PUTTUR – 574203, D.K., Karnataka, India

Tel: +91 08251 234555 | web: www.vcetputtur.ac.in

ORGANIZING PARTNERS



Proceedings of



DRISHTI–2025

**3rd International Conference
9th AUGUST 2025**

Organized by

VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY

**[A Unit of Vivekananda Vidyavardhaka Sangha Puttu(R)]
Affiliated to Visvesvaraya Technological University,**

Belagavi Approved by AICTE New Delhi & Govt. of

Karnataka Nehru Nagar, Puttur - 574 203, D.K.,

Karnataka, India

Tel: +91 8251 234555

web: www.vcetputtur.ac.in

ISBN: 978-93-343-5348-8

© Vivekananda College of Engineering & Technology, Puttur

DRISHTI-2025,3rd International Conference

ISBN: 978-93-343-5348-8

No part of this may be reproduced or transmitted in any form by any means, electronic or mechanical, including photocopy, recordings, or any information storage and retrieval system, without written permission from the copyright owner.

DISCLAIMER

The authors are solely responsible for the content of the papers compiled in this volume. The publishers or editors accept no responsibility for any errors or omissions. Errors, if any, are unintentional and readers are encouraged report them to the editors or publishers to prevent discrepancies in future editions.

PUBLISHED BY:

VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY

[A Unit of Vivekananda Vidyavardhaka Sangha Puttur (R)]

Affiliated to Visvesvaraya Technological University, Belagavi

Approved by AICTE New Delhi & Govt. of Karnataka

Nehru Nagar, Puttur - 574 203, D.K., Karnataka,

India Tel: +91 8251 234555

web: www.vcetputtur.ac.in

TABLE OF CONTENTS

TRACK 2

TECHNOLOGY

Sl. No.	Paper Title	Authors	Page No
1	Optimizing Search Engine Optimisation in Agricultural Web Applications Through Multimedia Integration	Mr. Ganapati Dattatraya Hegde, Dr. BhagyaJyoti K L, Divya A K,	166
2	An insight on a class of antimagic digraphs and hooked skolem sequences	Ancy Dsouza, Kumudakshi	167
3	Performance comparison of neural network models in predicting heart disease	G.Angayarkanni, Dr.M.Rajasenathipathi	168
4	An AI-Enhanced Web Platform for Symptom-Based Disease Prediction and Personalized Health Guidance	Ms.Heena Kouser, Dr. Divya A K, Dr. Bhagya Jyothi K L, Prof. Tajunnisa	169
5	Automating Mental Health Assessment among College Students Using Data Science Techniques	Sethulakshmi P	170
6	IoT Based Intruder Detection Using Real Time Object Detection	Mrs. Anvitha P, Dr. Ujwal U J , Dr. Smitha M L, Prof. Kishore Kumar K	171
7	Object Detection and Sound Alert System Using YOLOv3 and OpenCV	Mrs. MANASA S, Prof. NASEEMAC A, Dr.BHAGYAJYOTHI K L Prof. TAJUNNISA N M	172-173
8	AI-Driven Medicine and Wellness Recommendation System for Personalized Healthcare Support	Mrs. Monica Seles Jose A Mrs. Thajunnisa N M Mrs. Bhavya Mrs. Sindhu Venkatesh	174
9	Optimizing Retrieval-Augmented Generation (RAG) Systems for Scalable and Efficient Deployment in Resource-	Vivina Muthamma C L, Divya AK, 3Prajna MR, Ashwitha	175



PERFORMANCE COMPARISON OF NEURAL NETWORK MODELS IN PREDICTING HEART DISEASE

¹G.Angayarkanni, ²Dr.M.Rajasenathipathi

¹Assistant Professor, ²Associate Professor

¹Department of Computer Science, ²Department of Computer Technology ¹²Nallamuthu Gounder Mahalingam College, Pollachi, Tamilnadu ¹g.angayarkanni@gmail.com, ²r.senathipathi@gmail.com

ABSTRACT

Cardiovascular diseases (CVDs) remain among the leading global causes of death because this now affect younger populations at increasing rates throughout India and other countries. This research investigates deep learning capabilities through analysis of two leading models: the Multilayer Perceptron (MLP) and Convolutional Neural Network (CNN). The research uses one million patient records containing 13 clinical indicators and binary classification outcomes to explore four sequential stages beginning with benchmarking followed by feature selection and then k-fold cross-validation and Bayesian Optimization for hyperparameter tuning. The initial assessment showed that MLP performed slightly better than CNN but both models achieved significant accuracy and generalization improvements after feature refinement. The prediction performance remained stable when the model was validated through multiple data split cross-validation tests. The ensemble model which combined optimized architectures produced the best results with accuracy at 92.94% and precision at 92.27% and recall at 92.70% and specificity at 93.11% and F1-score at 92.48%. The research demonstrates that developing scalable clinical heart disease detection systems requires machine learning techniques with advanced methods and thorough model optimization and strategic feature development.

Keywords: Emotional Intelligence, Academic Achievement, XGBoost, Machine Learning, Predictive Modeling, Student Performance