Jalpa Desai

Innovator, Problem Solver, Mentor, Researcher

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EXPERIENCE

CHARUSAT, Changa, Lecturer

September 2017 - Present

Lecturer in Electronics and Communication Engineering Department

- Teaching Various Subjects
- Mentor for various types of projects for final and pre-final year students
- Coordinator of Equal Opportunity Cell
- Digital Marketing
- Newsletter Coordinator
- Coordinator of Technical and Event

KSD Technology Pvt. Ltd. Ahmedabad- Senior Engineer

May 2015 - October 2016

- Applied for Tender in Government Agencies
- Defence Projects related

Gandhinagar Institute of Technology, Gandhinagar-Assistant Professor

September 2009 - October 2014

- Honored to work as a supervisor
- examiner in GTU Examinations
- Coordinator of Women Development Cell
- Contributed to the Development of Various Laboratories

SKILLS

MATLAB ★★★★★

PYTHON ★★★★

WEKA Tool ★★★

LANGUAGES

English, Hindi, Gujarati

PROJECTs

1. Covid-19 patients Segmentation and Classification using SVM, KNN, Linear Regression
    - Machine Learning Algorithms are used to classify normal and abnormal tissues.
    - Binary Classification performed
2. Brain Tumor Segmentation and Classification using Machine Learning and Artificial Neural Networks
    - In this project threshold and region based segmentation is apply. And then SVM, KNN, Linear Regression, Logistic Regression classifier used.
    - BPNN, PNN and GRNN is apply to identify and classify that region.
    - And also find out using region growing segmentation for growth of tumor

3. Shape Identification using Machine Learning Algorithm
    - Region based segmentation is used to identify numbers of shape.
4. Classification of Fruits using Neural Networks Algorithm
    - Back Propagation Neural Network and Scale Conjugate function are used
    - CNN is used for binary classification

ONLINE COURSES

1. "Introduction to Deep Learning" By Great Learning Academy, October-2021
2. "Python Programming" By Great Learning Academy, January-2021
3. Course on "Python for Machine Learning" By Great Learning Academy, January-2021
4. "Introduction to Neural Networks and Deep Learning" By Great Learning Academy, January-2021
5. "Python Projects" By Great Learning Academy, April-2021
6. "30 Days Internship on AI (Artificial Intelligence) Master Class" at Pantech Prolab India Pvt. Ltd. Associated with Andhra Pradesh State Skill Development, 4 October to 5 November 2020
7. "Python Programming" By Udemy, October-2019
8. "Neural Networks Using MATLAB Programming" By Udemy, August-2019
9. "Machine Learning & Training Neural Networks in MATLAB " By Udemy, July-2018
10. "Particle Swarm Optimization in MATLAB" By Udemy, July-2018

RESEARCH PAPERS PUBLICATION

1. Jalpa J. Patel, Dr. S. K. Hadia "Two-Stage Feature Selection Method Created for 20 Neurons Artificial Neural Networks for Automatic Breast Cancer Detection" An International Journal of Computational Intelligence" [In progress]
2. Jalpa J. Patel, Dr. S. K. Hadia "An enhancement of mammogram images for breast cancer classification using artificial neural networks" International Journal of Artificial Intelligence (IJ-AI), Vol. 10, No. 2, June 2021, pp. 332-345, ISSN: 2252-8938, DOI: 10.11591/ijai.v10.i2.pp332-345
3. Jalpa J. Patel, Dr. S. K. Hadia "Detection of Ectopic Pregnancy From Ultrasound Image: A Review" International Journal of Research and Analytical Reviews, March-2019, pp. 1573-1576, ISSN:2348-1269
4. Jalpa J. Patel, Dr. Sarman K. Hadia "Prediction of Breast Cancer Detection Using K-Nearest Neighbors, Support Vector Machine and Feed Forward Back Propagation Neural Network", International Journal of Technical Innovation in Modern Engineering & Science, May-2019, pp. 770-773, ISSN: 2455-2585
5. Jalpa J. Patel, Dr. Sarman K. Hadia " A Review Paper on Digital Mammography for Detection of Breast Cancer" International Journal of Research in Advent Technology, Vol.6, No.5, May 2018 E-ISSN: 2321-9637
6. Jalpa J. Patel, "Technique for Non-Distractive Quality Evaluation of Cuminum cyminum L (Cumin Seeds) Using Colorization" GIT-Journal of Engineering and Technology, ISSN: 2249 - 6157
7. Jalpa J. Patel, Kavindra R. Jain, Chintan K. Modi "Quality evaluation of Foeniculumvulgare(fennel) seeds using colorization "International Conference Image Information Processing, ICIIP 2011 (IEEE Conference), JUIT, Waknaghat, Shimala, ISBN: 978-1-61284-859-4
8. Jalpa J Patel, Kavindra Jain, Chintan K. Modi "Non Destructive quality evaluation in spice industry with specific reference to Cuminum Cyminum L (Cumin) seeds" International Conference on Emerging Trends in Engineering and Technology, ICETET 2009, (IEEE COMPUTER SOCIETY) Nagpur, ISBN 978-0-7695-3884-6
9. Jalpa J. Patel, Kavindra R. Jain, Chintan K. Modi "Quality evaluation of Cuminum Cyminum L (cumin) seeds using colorization" International conference, on Signal, System and Automation, ICSSA 2009, GCET, V.V.Nagar. (ISSN 2070-

3740)

10. Jalpa J. Patel, Kavindra R. Jain, Chintan K. Modi “Occlusion Resilient Quality Evaluation of Cuminum cyminum L (Cumin Seeds) Using Machine Vision” International Journal of Computer Information Systems and Industrial Management Applications, 2011 (IJCISIM). http://www.mirlabs.org/ijcisim(ISSN 2150-7988)

EDUCATION

CHARUSAT, Changa — PhD. Pursuing

September 2017 - Present

Title: Design and Implementation of Image Processing Technique for Detection of Breast Cancer

GCET, Vallabh Vidyanagar— M.E. (Communication Engineering)

September 2007 - October 2009

Percentage - 53.51%
Title: Colorization Using Optimization

Shantilal Shah College of Engineering and Technology, Bhavnagar — B.E. (Instrumentation and Control Engineering)

July 2003 - June 2007

Percentage - 65.31%