Sudarshan E

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EDUCATION

JSS ACADEMY OF TECHNICAL EDUCATION, *Bangalore, India* Aug 2019 – Present
Bachelor of Engineering in Electronics and Communication Engineering, **CGPA: 8.38/10.00** *(Until 5th Semester)*
- Coursework: Network theory, Analog circuits, Digital Signal Processing, Communication System, Embedded System, VLSI
- Key Achievements: International Publication, Co-founder of AI Club

SADHANA PU COLLEGE, *Bangalore, India* Apr 2017 – Mar 2019
Pre-University, **Percentage: 69.16%**
- Coursework: Physics, Chemistry, Mathematics, Electronics

AHALYA BHAI'S HIGH SCHOOL, *Bangalore, India* Jun 2015 – Apr 2017
Secondary School Leaving Certificate, **Percentage: 72%**
- Coursework: English, Mathematics, Science, Social Science

SKILLS & CERTIFICATIONS

- Computer Skills: Python, Xilinx, Embedded C, Solid Edge, C, LINUX, MATLAB, Multisim, Microsoft Office
- Technical Skills: Data Analytics, Machine Learning, Deep Learning(basics)
- Certificates: Python, Data Analysis, Surveillance Robot, Linux and Data Analytics, Cloud Computing

EXPERIENCE

AUTOYOS, *Bangalore, India* Sep 2022 – Present
Image Analysis – Intern
- Extracted, labeled and created a database of 170 images for multiclass image classification *(NDA, image details not enclosed)*
- Currently, generating features for images in the database to perform analysis for image classification

PROJECTS

JSS ACADEMY OF TECHNICAL EDUCATION, *Bangalore, India* Apr 2022 - Jul 2022
Health monitoring System using Raspberry pi.
- Lead a team of 4 to design a health monitoring system using raspberry pi and took input data samples using max 30102 high sensitivity Pulse Oximeter sensor
- Generated heart rate by peak-to-peak sampling and regressed a deep neural network model for blood pressure using mimic 3 dataset with 20.1115% loss

JSS ACADEMY OF TECHNICAL EDUCATION, *Bangalore, India* Oct 2021 - Jan 2022
Multiclass Radiography classification
- Collaborated with 6 individuals and extracted image features and gathered image features for 21,164 images which belongs to imbalanced and improper dataset
- Programmed to Classify the X-Ray images based on its classes such as Covid, Lung Opacity, Normal, Viral Pneumonia using Residual neural network (ResNet), U-Net, Convolution neural network, Mobile V2 Net with an accuracy of 70.13%, 93.30%, 95.42% and 89.75% respectively

JSS ACADEMY OF TECHNICAL EDUCATION, *Bangalore, India* Apr 2021 – Aug 2021
Covid 19 chest CT-scan classification
- Collaborated with 6 peers to post-process and extract statistical information such as mean, median from 2481 Computed Tomography (CT) images to classify for Covid or Non-Covid conditions
- Analyzed the images by extracting Gray-Level Co-occurrence Matrix (GLCM) features, performed classification using Support Vector Machine (SVM) and Random Forest models giving an accuracy of 91% and 94.5% respectively
- Published this work at Emitter International Journal of Engineering Technology, June 2022

EXTRACURRICULAR ACTIVITIES

- Co-founder of AI Club in JSS Academy of Technical Education, Electronics and Communication Department
- Student Coordinator for Hands on Python session conducted by AI Club