Devesh
Tarasia

02 August 1997

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Education

B.Tech. Electrical and Electronics Engineering & *Mathematics*| SNU 2019| GPA:7.98/10

Class XII | DAV Public School, Pkt 2015 | 91.0 %

Class X | DAV Public School, Pkt 2013 | 9.2/10

Skills

Languages: C, C++, Matlab, MySQL, Python, R
Software : Matlab, Gazebo, PyTorch, Flask, ROS, OpenCV, OpenVino, on Unix
Other: Agile/Scrum, Git, Docker

Extra-Curricular

Image Processing Head of URC @ Roboyantriki
Lead the design and development of SLAM based methods for locomotion and mapping for University Rover Challenge 2017

Teacher @ Python Workshop
Taught various python basics and Introduced OpenCV to the eager students

IT Head @ IEEE, SNU Chapter
Management and digitisation of platform for easier collaboration between projects and events

NCC Air Wing Cadet
Recieved the 'A' certificate and was one of the highest scorers in the exam in the state

Work Experience and Internships

Since Jun'19 Lead Software Developer — AMSPL
Led the development of machine learning workflow and computer vision model for autonomous navigation which was awarded by Nidhi Prayas Grant

Jan-May'19 Machine Learning Intern — AMSPL
Developed a fish tracking underwater computer vision model using PyTorch. Also worked on embedded system mimicing voluntary and involuntary actions of humans. Awarded with the highest grade at University

Jun-July'18 Research Intern — IIT Kanpur
Worked under Dr. Soumya R. Sahoo. Worked on centralised and decentralised formation control simulated on Gazebo

Research and Projects

Sep'18-May'19 Jaya Optimization for Multi-machine setup
Worked to expand Jaya Optimization to be applicable on multi-machine setup for predictive maintenance. The paper in currently under review at International Journal of Advanced Manufacturing and Technology

Aug-Dec'18 Voice Command Recognition
Worked under Prof. Madan Gopal. Study and comparison of feature extraction from traditional methods compared to deep learning. Used a hybrid architecture of RNN to extract MFCC from raw signal and do classification. Developed completely on Matlab

Jan-May'17 Wireless Sensor Network
Supervised by Dr. Anuradha Ravi. Developed a low cost setup which can be used to detect presence inside a room, using sensors like IR and PIR. C and Python was used.

Nov-Dec'17 Prediction of Customer Response
Developed a robust classifier that gave a accuracy of 92% even with the inherent skewed data, missing values and high number of features. Sensetivity was 79%, the best in the among other groups

Nov-Nov'18 Video synthesizer
Based on Nvidia Vid2Vid, it was to convert animated videos to photo-realistic ones using GANs and CNNs

Achievements

Feb'19 Finalists - HackData 2.0
One of the 8 teams of 400 to have been given the chance to pitch infront of investors for potential startup

Dec'14 Gold, Silver and Bronze
National Cyber Olympiad, National Science Olympiad and International Informatics Olympiad respectively

Relevant Coursework

Undergraduate Control Systems, Applied Machine Learning, Discreete Structures, Analysis and Business Modelling using Excel, Embedded Systems Hardware, Graph Theory, Linear Algebra, Algorithmic Thinking, Data Structures, Big Data Analytics, Digital Signal Processing, Dynamical Systems

Certfications AI in Data Centres by Nvidia DLI, Deep Learning with PyTorch by Udacity, Intel Edge AI Nanodegree(ongoing) by Udacity, IoT Technologies by CSIR-CEERI, Embedded Robotics by HP Educational Services