Abhilasha Jha

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ACHIEVEMENTS

- Have maintained a CGPA of 9.19 over past five semesters and had been awarded with the Certificate Of Merit in Winter Semester 2016 for exceptional academic performance (awarded to ten top ranking students of a given branch every year).
- Was appointed as Technical Mentor, the member of the board at the Computer Society of India chapter at VIT University.

CERTIFICATES

- Web Developer Bootcamp by Colt Steele (Udemy)
- Machine Learning A-Z: Hands on Python and R for Data Analysis (Udemy)
- Machine Learning by Stanford University (Coursera)

EDUCATION

Secondary

Kendriya Vidyalaya, Air Force Station, Jaisalmer

April 2011 - March 2012

Secured overall 10 CGPA in the CBSE AISSE Examination and A1 grade in all the subjects

Higher Secondary

Kendriya Vidyalaya, Andrews Ganj, New Delhi

April 2013 - March 2014

Secured 91.2 % in the CBSE AISSCE Examination.

SKILLS

- ❏ Sound knowledge of C, C++, Python, Java, and JavaScript.
- ❏ Experience in developing websites using LAMP and MEAN stack.
- ❏ Tinkered with Machine learning algorithms and ideas of complexity theory for quite a long time now.

ACADEMIC PROJECTS

Turing Machine Simulator- *Theory of computation and Compiler design*

Fall Semester 2016

- New data structures were devised to simulate the pointer, the infinite tape and for storage of states.
- The project can viewed at: https://github.com/trinity652/Turing-machine

Detection of Malicious and Benign Connections in a Network - *Networks and Communication*

Winter Semester 2017

- Created a Python tool which detected malicious and benign connections using the Decision Tree algorithm.
- The project can viewed at: https://github.com/trinity652/Desicion-tree-Network-Analysis

Energy Efficient Scheduling Of Virtual Machines for Cloud Data Centers - *Green and Energy Aware computing*

Winter Semester 2017

- Our work focused on visualizing the allocation of virtual machines to the servers as a three dimensional bin packing problem
- We used Javascript and C++ to simulate the same.
- Available upon request.

Automated and Smart irrigation system - *Internet Of Things*

Winter Semester 2017

- Created an automated and self learning irrigation system to analyze the moisture in the soil and take informed decisions like number of equipments to keep switched on at a moment using Principal Component analysis and inform the farmer using Arduino,Matlab and NumPy libraries in Python.
- Available upon request.

Detection and Classification Of Skin Cancer using SIFT Feature Extraction and Bag of Visual Words *- Image Processing*

Fall Semester 2017

- We used the ISIC image archive to model and train our machine learning system. OpenCV and SciKit-learn were used to model the system. Our aim was to classify three major types of Skin Cancers: Melanoma, Basal Cell Carcinoma and Squamous Cell Carcinoma.
- Language used was Python.
- Available at: https://github.com/trinity652/Skin-Cancer-Classification

Detection of Breast Cancer using Adaptive thresholding and Statistical Feature Extraction and SVM *- Neural Networks And Fuzzy Control*

Fall Semester 2017

- The tumor containing regions were detected using adaptive thresholding and further information about the mammogram was obtained by extracting statistical features.
- The obtained data was used to train the SVM and later the occurence of cancer was predicted using the same.
- Available upon request.

Recyclotron: Destination to sell your E-Junk*- Web Technologies*

Fall Semester 2017

- An E-Waste Buying and Selling website using Mean Stack was created.
- The complete project is open source and can be viewed at: https://github.com/trinity652/Recyclotron

Extra-Curricular Activities

- ❏ Had participated in VIT-MUN 2016 and got a Verbal Mention in the very first conference.
- ❏ Had participated in VIT- Technical Conference 2016 and got a verbal mention and was termed as “Most Eloquent Delegate” by the chairperson.
- ❏ Was called as a guest speaker on the occasion of “Hindi Diwas 2017” on VIT Community Radio for being a poet and Hindi and Urdu poetry enthusiast.

References

1. Dr Vijayarajan V, Associate Professor(Senior), SCOPE, VIT University