

Ameya Dhamanaskar

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B.E. (Hons.) Electricals and Electronics Engineering (EEE) (2014-2018)

Birla Institute of Technology and Science, Pilani.

CGPA: 7.23/10

ACADEMICS DETAILS

Course	Institute / College	Board / University	CGPA (%)	Year
XII	Pace Junior Science College	HSC	85.33	2013
X	NES International	Cambridge IGCSE	91.63	2011

ELECTIVES/TECHNICAL PROFICIENCY

Relevant Courses / Electives	Information Retrieval, Object Oriented Programming, Probability and Statistics, Calculus, Linear Algebra, Operating Systems, Symbolic Logic, Microprocessors Interfacing and Programming
MOOCs	Deep Learning Specialization by Andrew Ng (Coursera), Machine Learning by Andrew Ng (Coursera), Intro to ML (Udacity), Natural Language Processing by Chris Manning, Linear Algebra by Gilbert Strang (MIT Open Courseware), Data Structures and Algorithms.
Skills	Python, C++, Java, MATLAB, Bash, Perl Scripting, TensorFlow, Keras.

RELEVANT PROJECTS

Autonomous Driving Car Detection <ul style="list-style-type: none">Build a car detection system using You Only Look Once Algorithm (YOLO) for Object detection.Performed object detection on a dataset from drive.ai (720x1280 images).Applied pre-trained weights, 5 anchor boxes, and non-max suppression to filter the algorithm's output.Only one forward propagation pass through the network renders the objects in a bounding box	January 2019
Face Recognition System <ul style="list-style-type: none">Build a face recognition system to recognize the authorized persons with image as input.Used FaceNet model trained by minimizing the triplet loss.Created a convoluted neural network with 99.4% LFW accuracy.	December 2018
Deep Learning & Art Generation with Neural Style Transfer <ul style="list-style-type: none">Implemented the Paper "A neural Algorithm of Artistic Style" and generated novel artistic imagesMerged two images, a content image and a style image, to create a generated imageChose the middle layer of the network and optimized the cost function to get most visually pleasing results	November 2018
Trigger Word Detection <ul style="list-style-type: none">Implemented model with 1-D Convolutional Layers, GRU Layers and dense layers.Used Data synthesis for generating dataset and model was trained to detect "Activate" in Audio	October 2018
Improvised a Jazz Solo <ul style="list-style-type: none">Applied LSTM network to generate Jazz musicTrained the model on 30 snippet of values and one hot encoding was used as input	September 2018
Effect of sentiment analysis Features on extracting adverse drug reactions from tweets/posts <ul style="list-style-type: none">Implemented the paper "Analysis of the effect of sentiment analysis on extracting adverse drug reactions from tweets and forum posts"Investigated the effect of sentiment analysis features in locating ADR mentionsProposed emoticon sentiment detector as a feature to improve the performance after analyzing Twitter/Daily-Strength dataset	Jan 2018-May 2018
Hardware Realization of Quantum inspired Neural networks for signature verification <ul style="list-style-type: none">Designed an Artificial Neural Network model for signature verificationImplemented a paper "Enhanced quantum-based neural network learning and its application to signature verification"Drew comparative evaluation of the developed model with existing cv models	Jan 2018-May 2018
Deep Neural Networks for Image Classification to distinguish cat images from non-cat images <ul style="list-style-type: none">Made an Image Classifier using Logistic Regression which rendered 70% accuracyUsed 4-layer Deep Neural Network Architecture to increase its accuracy from 70% to 80%Applied Convolutional Neural Network with 12 filters to further increase accuracy to 94%	August 2018

Internet Of things Based Project on Mechanical padlock for Safety Application		Jan 2017-May 2017
<ul style="list-style-type: none"> Designed a Smart lock which could be operated using Mobile Application Used Arduino Programming to communicate with the Google Firebase where the data was being stored Mobile App used to retrieve the Arduino sent data from Firebase, was the key for communication in this padlock 		
WORK EXPERIENCE		
Software Development Engineer <i>Tesco Bengaluru, India</i> Tesco is a British multinational groceries and general merchandise retailer.		June 2018-Ongoing
<ul style="list-style-type: none"> Developed applications for remote rebuild architecture for Tesco Stores across UK and Ireland <ul style="list-style-type: none"> Used Socket Programming to control the transfer of OS Images Implemented customized TFTP protocol and Integrated with Web Apis to get control over rebuild Deployed the solution across the whole Tesco estate of 40000 tills Developed an optimized vehicle routing system for Store fulfilment <ul style="list-style-type: none"> Implemented different algorithms like bi-Dijkstra, A* and applied Contraction Hierarchies for faster Routing Used Open Street map data to calculate point to point Distance Matrix 		
Software Development Intern <i>Infinera India Private Ltd, Bengaluru, India</i> Infinera India is a pioneer in optical networking by empowering network operators to scale bandwidth.		Jul 2017 - Dec 2017
<ul style="list-style-type: none"> Developed a Script to notify consolidated list of non-merged change list pending for auto merger <ul style="list-style-type: none"> Notified the developers with non-merged change-list through email ensuring a streamlined flow of automated recall in the organization Perl Script to get developer's detail on the pending merger, email ids for notification and dynamic file handling Developed plugins to successfully carry out Swwiki to Confluence migration <ul style="list-style-type: none"> Pushed all the data from the Swwiki to Confluence Developed a Perl Scripts used to change the format of imported Swwiki data to adjust to the format of Confluence 		
POSITION OF RESPONSIBILITY		
Head Coordinator of the Department of Live Events, BOSM '16, BITS Pilani BITS Open Sports Meet (BOSM) is the annual sports festival of BITS Pilani, Pilani campus.		Aug 2016 - May 2017
<ul style="list-style-type: none"> Lead and Managed a team of 40+ members during BOSM, for organizing events on Campus Conceptualized and Conducted 4 events with more than 1000+ participants Organized a Band Concert and Live act for over 2000 Students during BOSM 		
ACHIEVEMENTS AND AWARDS		
<ul style="list-style-type: none"> Got Recognized as most Responsive in Spotlight Awards for my research and execution at Tesco. Secured 99.23 All India Percentile in Joint Entrance Examination (Mains) Recipient of Inspire Scholarship (awarded to top 1% in Higher Secondary School Certificate) Secured Rank 1 in Cambridge IGCSE in Chemistry & Biology (100/100) Secured Rank 1 in High School Cambridge IGCSE (91.63%) Secured 10th Rank in All India Math Science Talent Search Examination 		2019 2014 2013 2011 2011 2010