Abhinav Hegde

hegdeabhinav7@gmail.com

+91 9482013 92
Bangalore, KA, IN

EDUCATION

PES University, Bangalore, KA, IN **Aggregate : 8.96/10** **2016-2020**
Bachelor of Engineering in Computer Science and Technology

Sri Bhagawan Mahaveer Jain College **Aggregate : 94%** **2014-2016**

TECHNICAL SKILLS

Languages: Python, Java,C
Web Technologies: Flask, Spring, JavaScript, HTML, CSS, REST, PHP
Databases: MySQL, MongoDB

ACTIVITIES AND PROJECT

Student Developer, Crio Summer Of Doing:

- Built a backend system for the mock application QEats: A Food Ordering Application
- Implemented API's to query for cuisines, food items and restaurants, to fetch menu's of the restaurants, to add/remove items from the cart of a given user, to place the order and deployed the backend on AWS
- Implemented a simple food recommendation system as part of the capstone project
- Was selected among the top 10 teams in the capstone challenge
- Link : https://criodo.github.io/csod-2019-AbhinavHegde97/

Selfieless Acts:

- an Online photo sharing app, that is containerized and orchestrated automatically. There are two instances of AWS hosting two different parts of the app, users and acts.
- An orchestrator running in acts instance automatically does load balancing, fault tolerance,auto-scaling of the containers running in the same instance. The backend of the application is built using Flask
- Added API's to add/remove user's and acts
- Link: https://github.com/AbhinavHegde97/CloudComputingFinal

IPL Match Prediction:

- Simulating the match, given 2 teams, batting order bowling order and team that bats first.
- Using Probability:
  - K-Means clustering is applied to batsmen statistics . 10 Clusters for batsmen were created to resemble 10 batting positions . 5 Clusters for bowlers were created
  - For each delivery , the batsman vs bowler statistics is retrieved and runs and wickets for that delivery are calculated based on probability statistics and confidence score
- Using Decision Tree
  - Simulating a match over by over with the help of Decision Tree
  - Used the 10 parameters to predict the outcome of runs and wickets:
- Link: https://github.com/AbhinavHegde97/IPL-Match-Prediction

Long Term Fundamental Analysis of Stocks:

- construct 36 fundamental features to characterize each stock, and label stocks according to their ranking with respect to the return-to-volatility ratio.
- Algorithms used to solve the classification task Logistic Regression, Random Forest Deep Neural Network.

Internal Semester Assesment Test:

- Created an application that mocks the Computer Based tests conducted at PES University
- Functionalities implemented for the question setter to add questions, add the choices and mark the correct answer (Multiple Choice Questions and True/False)
- Used MySQL for DataBase, PHP and JavaScript for Backend functionalities
- Link: https://github.com/AbhinavHegde97/InternalEvaluation-ComputerBasedTest

ACHIEVEMENTS AND EXTRA-CURRICULAR

- 1st Place at Alcoding Summer Challenge (out of 221 students)
- 2nd Place at Bet To Code,IISc Bangalore, 2019
- 4th Place at ThoughtWorks Datathon, 2019
- Prof MRD Scholarship for Academic Excellence, 2017
- Youtube-channel : Algo Made Easy (https://www.youtube.com/channel/UCqfBPYrKUx4rnIhqXyCXwUg)

ABHISHEK PRASAD

Computer Science and Engineering graduate
PES University, Bengaluru - 560085

Contact: 9631077891
Email: abhishek.pes2016@gmail.com

EDUCATIONAL QUALIFICATIONS

- **PES University (B Tech) Expected: 2020**
  CGPA **9.34/10** up to **6th Semester**.
- **Hill Top School, Jamshedpur (Batch of 2015)**
  Class XII: Council for the Indian School Certificate Examinations (**ISC- 89.2 %**)
- **Hill Top School, Jamshedpur (Batch of 2013)**
  Class X: Council for the Indian School Certificate Examinations (**ICSE- 94.2 %**)

RELEVANT COURSEWORK

Data Structures, Computer Algorithms, Database Management System, Operating System, Computer Networks, Compiler Design, Entrepreneurship, Cloud Computing, Theory of Computation.

SKILLS

Programming Languages: **C, C++ (Basic)** Others: **SQL**

INTERNSHIPS

- **CDSAML (Center for Data Science and Applied Machine Learning) -** A research internship carried out during the two months summer break. My research area included **machine learning** and **NLP**.

PROJECTS

- **Photo-Share –** Built the backend for a cloud app using **Flask** hosted on **AWS** distributed across multiple **EC2** instances and **containers** with dynamic upscale and downscale based on no. of user requests.
- **C Mini Compiler –** Implemented the **front end of a Mini Compiler for C language**, which takes as input a C code and outputs the corresponding intermediate code representation in three address code format.
- **File System for UNIX –** Designed and implemented a working and persistent virtual **File System in Linux** using **FUSE**.
- **Blood4You –** An **e-blood bank website** with a rich **database** of Blood banks and Hospitals in Bengaluru to help people in need of Blood.
- **Automated Parking System –** An automatic parking system for overcrowded cities to fully automate the old parking system using **Arduino** and a small camera model.

COMPETITIVE PROGRAMMING STATISTICS

- **Codechef** (@abhishek_2017) **Rating: 1658 (3 star)**
- **Hackerearth** (@abhishek2341) **Rating: 1486** Problems solved **270+**

HONORS AND ACTIVITIES

- Qualified **Codechef Smackdown 2017 and 2019** Qualifier and Pre-Elimination round.
- Cleared Qualifier Round of **Facebook Hacker Cup 2018** and **2019**.
- Bagged **13th rank** in "**Hour Storm #1**" organized by **Hackerearth**.
- **Executive Member** (Core Team contest organizer) in the college's official coding club '**ALCODING**'.
- Recipient of "**CNR RAO Merit Scholarship**" .
- Bagged "**Golden Jubilee Scholarship**" from **TATA MOTORS LIMITED** for academic excellence.

PUBLICATIONS

- "Document Embedding Generation for Cyber-Aggressive Comment Detection using Supervised Machine Learning Approach" – published in the **14th International Conference on Natural Language Processing** (**ICON-2017**) organized by IIIT Hyderabad.

Adarsh Mishra

https://github.com/Adm28

Email adarshmishra288@gmail.com
Mobile +91 9740861581

Education

PES University (2016 2020) — Bengaluru, India
- *B.Tech in Computer Science; CGPA: 8.35* — *Aug 2016 Aug 2020*

AECS MMPS , Bengaluru (2014 2016) — Bengaluru, India
- *CBSE Grade 12: 87.2%* — *June 2014 March 2016*

AECS MMPS , Bengaluru (2012 2014) — Bengaluru India
- *CBSE Grade 10: 9.6* — *June 2012 March 2014*

Experience

Center for Cloud Computing and Big Data — Bengaluru, India
- *Research Intern* — *July 2018 Aug 2019*

  - **Cassandra - Quality Of Service :** Cassandra - Quality Of Service : Benchmarked the performance of Cassandra Database to monitor replication time for standard workloads. Collected table metrics, system metrics and threadpool values of each node and built a regression model to predict the replication time. The paper got accepted in " **2nd EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing**"

CRIO.DO — *May 2019 June 2019*
- Developed the backend from scratch for a food ordering application using Java spring boot. IMplemented functionality to find restaurants nearby,search for restaurants, add items to cart and delete items from cart.

Programming Skills

- **Programming languages** C , Java, Python C++
- **Technologies** Cassandra Spring boot, MongoDB, Mesos REST
- **Domains** Cloud Computing Systems Big Data Machine Learning

Projects

- **Scheduling ML jobs on distributed systems -** Developing a framework which optimises the average execution time of deep learning jobs by scheduling jobs and dynamically allocating resources to them. The main aim of the project is to improve resource utilisation and efficiency using machine learning techniques. This framework is built on top of Mesos. This project is being carried out as research credits in seventh semester
- **SelfieLessActs** - A highly scalable, fault tolerant and distributed cloud based web app that is used to share information about anything that is good for the society that one observes .

Other Skills, Interests and Achievements

- **Bet to Code** - Secured Third Position in the competitive programming event in IISC open day 19 sponsored by CISCO and Google.
- **Competitive Programming** - Enthusiastic about competitive programming and problem solving. **Codechef :** Highest Rating of 1603 (handle : adarsh_28)
- **Center For Innovation And Entrepreneurship** An active member of the center and have completed the CIE L1 course

ADITYA RAJ

PES UNIVERSITY

Bangalore-560085
Mail: adityasingh.591997@gmail.com
Mobile: +91-7899821341
Date of Birth: 05-02-1999

EDUCATION

Name of course	Year	College	%
B.TECH	2016-2020	PES UNIVERSITY, Bangalore	7.56
CBSE (Class XII)	2015	Gyan Niketan High School , Patna	89.40%
CBSE (Class X)	2013	Jean Paul's High School, Ara	95%

PROGRAMMING LANGUAGES AND SKILLS

- Good exposure in C | MySQL | HTML | CSS | JavaScript | Word | Excel | Powerpoint
- Good Knowledge in Angular | Node.js | Express.js | MongoDB
- Good Knowledge in Computer Networks | OS | DBMS | Data Structures | Algorithms | ERP | KM
- Some exposure in Python | Java.

PROJECTS

- Developed a Single Page Chat Application using MEAN Stack and Socket.io as an intern at IIT Kanpur.
- Developed Simple License Plate Detector using openCV in Python.
- Did a Project on Sentiment Analysis of IMDb Movie Reviews.
- Developed a simple Music Player in Python.
- Developed an e-commerce(dummy) website .
- Developed a basic color detector robot.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Got 99.41 percentile in e-litmus Aptitude Test.
- Cleared the exam and interview of Indian Naval Selection Board.
- JEE Advanced Qualified (AIR-9227).
- Subject Topper in Fuzzy Logic.
- Won Interscholastic Debate Competition in Class IX.
- Won many Quiz Competitions and Olympiads.
- Football Player in College Team.
- Actively Participated as a CORE HEAD of Organizing team In TECH FEST of our college.
- Volunteered in Annual Fest Of our college.

HOBBIES

- Playing and following various sports | Solving Analytical problems and Puzzles
- Listening to podcasts | Following political and economic developments in India

Akshay Raghunandan

Bangalore, Karnataka, India

Email: akshay.rs3@gmail.com Ph: +919880146511

Education

PES University, B.Tech in Computer Science and Engineering GPA: 8.97/10

August 2016 - May 2020

Deeksha Center for Learning PU College, 12th Score: 93.8%

2014-2016

Innisfree House School, 10th Score: 89.5%

Publications

Identification of Similar Scripted Language Characters using KNN and SVM

Presented at the International Conference on Adaptive Computational Intelligence held in Mysore on 19th July 2019

Projects

Link Prediction in Facebook Social Graph

Predicted what new connections will be made between people in a social graph
Used their shared interests and network embeddings as features
Experimented with different binary classifiers, achieved 80% accuracy using a neural model.

Reinforcement Learning based Recommender

Built a Deep Q Learning model that recommends movies to users
Used past 4 movies of user as history stack to make recommendation.
Achieved 70% precision based on ratings.

Container Orchestration

Created a web service called Selfieless Acts which allows users to post selfies with captions.
Two microservices running on two instances which communicate through REST API. Created an orchestration service which auto scaled the number of containers in the instances, performed load balancing and fault tolerance.

Book Genre Classifier

Classifying books based on title and author word vector into one of 22 classes.
Used both sparse TF-IDF and dense SVD vectors to train based on model.
Classifiers used were Naive Bayes, SVM and ANN which gave accuracies of 55-60%.

Data Structure Library for C

Built a library in C to implement lists, vectors, stacks, queues and trees.

Atari Taxi Agent

Created an agent that plays Taxi v3, an Atari game using Reinforcement Learning.
Trained the agent using Q learning and Epsilon greedy strategy.
Achieved highest possible score each level.

Skills

Algorithms, Data Structures, Machine Learning, C++, C, Python

Achievements

- Awarded Prof. CNR Rao Merit Scholarship which waives 25% of tuition fee.
- Certificate of Merit for scoring 100 in Computer Science in 12th board examination.

AMAR ANANTH

[redacted]

[redacted]

EDUCATION

PES University 2016-2020
Computer Science Engineering

Delhi Public School 2014-16
PCMC 92.33%

WORK EXPERIENCE

Robert Bosch Engineering and Business Solutions Limited (RBEI)

Data Science-HealthCare, June - July 2019

- Worked on image processing algorithms using OpenCV libraries and ImageJ macros.
- Extracted features using computer vision concepts, and built a Multinomial Regression Classifier for the required task.
- Performed feature engineering in order to improve model performance.
- Also implemented a semantic segmentation module using deep learning, which uses a encoder-decoder network.

Philips Innovation Campus, Bangalore

Data Science-HealthCare, June - July 2018

- Worked on various image formats such as nrrd, dicom, nii, jpg etc
- Reconstructed codes for image processing filters such as Gabor,Haralicks,Laws,LoG,LBP2D and Wavelet.
- Studied radiomics and worked on feature extraction using the pyradiomics module and generated radiomics features for X-rays.
- Extensively used modules such as numpy and SimpleITK.

Plansform

Insights and Digital Marketing Sept 2017 - Present

- Analyzing insights and reach statistics and going forward with suitable strategies.
- Generation of social media info graphic and media outreach.

Magnate Architectural Auxiliary Services

Intern, Jun - July 2017

- Studied SEO, analytics,handled the blog and helped in optimizing the company website.
- Tracked website stats using Google analytics,and increased the page rank.
- Generated multiple leads for B2B market through social media.

SKILLS

- Python Programming
- Machine learning- Deep Learning
- C++ programming
- R Programming
- Digital Image Processing- ImageJ,OpenCV,PIL
- Data Analytics
- SQL
- Image Editing- GIMP
- Digital Marketing

PROJECTS

Semantic Segmentation using Resnet101 and FCDenseNet56

[redacted], June 2019

- Worked on a semantic segmentation module built using deep learning architectures such as FCdenseNet56 on top of ResNet101. Generated training data, and used data generated by the model to retrain the model. A reinforcement based training, which showed great results after a number of epochs. Tried to track back on what basis the network learns and improved the model to get acceptable accuracy.

Kaggle Chest X-ray classification

Jan 2019 – May 2019

- Worked on the Kaggle dataset of chest xray which has about 10 labels for classification. Used several supervised and unsupervised techniques to classify based on data and evaluated the confusion matrix and noted results.

Pyradiomics Feature Extracrion and Filter Generation

Philips HealthCare, Jun 2018 – Jul 2018

- Given a jpg of a x-ray, converted it into a medical format such as nrrd,dicom. Upon conversion, transform image into a 3D image. Ran various image processing filters, and generated radiomic features with processed images.

IPL match prediction using Unsupervised Learning

Aug 2018 – Dec 2018

- Predicted IPL 2018 match outcomes using clusters of players with the help of Spark and Hadoop. Used K-means clustering algorithm and Spark decision trees to predict ball by ball data for each batsman v bowler pair.

IMDb Movie Dataset Analysis

Aug 2018 – Dec 2018

- Worked on IMDb's official dataset of all movies-genres,actors,ratings etc. Found trends, key attributes and outliers in the dataset. Found correlation between unique attributes and made few predictions using a regression based model using R.

COURSES

Center of Innovation and Entrepreneurship Level 1 &2

PES University, Aug 2018 - Present

- Learning the working structure of startups.
- Designed a business model for our start-up idea which we proposed.
- Prototyping and development.

VOLUNTEERING EXPERIENCE

Desire Society, U&I

July 2018- Present

- Teaching kids ranging from the ages 5-13 English at Desire Society, an institute which takes care of the well being of kids affected by aids.

Sparky Football - Senior Coach

July 2018- Present

- Part of a football initiative to Engage, Educate and Empower children from all backgrounds on life skills by using the power of football for a long lasting social impact in India.

CONTACT

[redacted] amarabhat@gmail.com

ANIRUDH MURTHY

D-1, KIOCL Colony, 2nd Block, Koramangala, Sarjapur Rd., Bangalore – 560034 | 9972521405 | anirudh988@gmail.com

SUMMARY

I am a 4th year engineering student who is currently pursuing an Bachelor's Degree in Computer Science. I enjoy coding and have attempted a few online coding competitions. My preferred subjects are Computer Networks, Data Analytics ,Cloud Computing, though I'm interested in learning new topics.

EDUCATION

2016 – current
B.Tech, Computer Science, *PES University, Banashankari, Bangalore.*
CGPA: 8.44 / 10 GPA

2015 – 2016
Class 12, *National Public School, Koramangala*
Result: 89%

2013 – 2014
Class 10, *National Public School, Koramangala.*
Result: 9.8 / 10.0

PROJECTS/WORK

- Programmed a robot using Arduino to follow certain shapes of a certain colour and mechanically grab them using python for image processing (rudimentary fruit harvesting robot).
- Built an encryption implementing basic encryption techniques and trees to encrypt and decrypt text files using C.
- Created a library to perform arithmetic operations on very large integers (stored as strings) by implementing complex algorithms like Karatsuba for operations like multiplication.
- Interned at Spire technologies over the summer and worked with nlp concepts, specifically Word2vec and Doc2vec to compare and evaluate text documens like resumes, applications etc.
- Made a simple file system using fuse.
- Designed a web service hosted on cloud(AWS) from scratch(Wrote API's in flask, used Docker to containerize the app into microservices and wrote code for auto scaling and load balancing to process requests).

SKILLS

Proficiency in Languages
C, working knowledge of C++, Python

Courses Completed
Compiler Design
Machine Learning
Cloud Computing
Advanced Computer Networks
Computer Network Security
C++
Data Analytics
Operating Systems
Computer Networks
Algorithms

Anish Kasi
24/2 Maruthi Manor, Kanakapura Road
Basavanagudi, Bengaluru 560004, India

Phone: +91 88846 04509
Email: anishkasi@gmail.com

OBJECTIVE

Seeking a challenging job where my programming and problem solving skills can help develop innovative technology solutions.

EDUCATION

PES University, Bengaluru
Bachelor of Technology, Computer Science Engineering

Expected Graduation: May 2020
CGPA: 9.44/10 (Current)

INTERNSHIP EXPERIENCE

Microsoft Research, Bengaluru, India (January 2020)

- One of the 20 Research Interns selected across the entire country.

CubeBioai & PES Center for Pattern Recognition, Bengaluru, India (August 2019 – Present)

- Development of de-novo drug design techniques using deep reinforcement learning with a predictive-generative model that predicts the efficacy based on inhibition coefficient (plc50)
- Extending the models to a larger project on predicting the activation site features and test on varioas perturbagens

Languages/Tools: Python, Keras, TensorFlow, Pytorch

Lam Research, Bengaluru, India (June 2019 – August 2019)

- Developed a Machine Learning model for estimation of sales order life cycle time.
- Created a model for the classification of parts into different hardware categories using NLP and Machine Learning algorithms.
- Designed and developed several dashboards using BI tool (Qlik Sense) and SAP HANA for visualization of Key Performance Indicators (KPIs).
- Created a NLP model to assess the risk/reward scores of supplier contracts based on business rules set by the user and extraction of contractual terms such as date, contract classification type, etc.

Languages/Tools: Spyder, Qlik sense, SSMS, SAP HANA, Python, SQL

SecurelyShare, Bengaluru, India (June 2018 – August 2018)

- SecurelyShare is a cyber-security organization providing technology to secure data and control privacy of data
- Developed and implemented a desktop application to capture, link, and authenticate data including eMail Id, User Id, Social Id, Images, Device Id and Biometric Id from different sources
- Utilized Electron framework to facilitate cross-platform support and extensively used functionalities including Web Push Notifications (FCM), API calls, display of real-time data, OTP generation and verification etc.

Languages/Tools: Electron, NodeJS, Javascript, HTML, CSS, Jquery, AngularJS

Pandera Solutions Private Limited, Bengaluru, India (June 2016 – July 2016)

COURSE PROJECTS

- **ROOMBA**
  Developed, Analyzed and Tested reinforced path-planning algorithms for a robotic vacuum cleaner. Developed and implemented numerous algorithms including spiral, s-shaped, wall following, Q-learning, etc
  Languages/Tools: Python

- **LINUX FILE SYSTEM**
  Created a custom file system for Linux using Fuse library. Developed and implemented several functions for creating, opening, reading, deleting and renaming files and directories. Additionally, persistence was also implemented for data redundancy.
  Languages/Tools: C, Fuse, Linux

- **COMPILER DESIGN**
  A functional C compiler with lexical + semantic + optimization phases completed using Python Lex and Yacc
  Languages/Tools: PLY, Python

- **GESTURE CONTROLLED MUSIC PLAYER**
  Set up a gesture controlled music player which can play, stop or shuffle music based on the gesture showed. It also changes the sound of the speaker based on ambient sound levels. An LED detector is also used so that the music can be paused automatically if the user crosses the threshold distance.
  Languages/Tools: Raspberry Pi, LED, earphones.

- **MACHINE LEARNING**
  Created a YouTube trend predictor which predicts the chances of whether a video on YouTube will trend or not.
  Languages/Tools: Pandas, Keras, TensorFlow, Theano

PUBLICATIONS

- **Multi Scale Template Matching to denoise Epigraphical Estampages-**
  Provide a novel method to denoise historical documents effectively with minimal character loss. A combination of Machine Learning and Computer Vision techniques were used in order to create the algorithm.
  [Publication accepted at ICICC-DSU 2019, Springer Journal]

- **Denoising and Segmentation of Epigraphical Estampages by Multi Scale Template Matching and Connected Component Analysis**
  An algorithm developed to find the average area of a character in images with text. A pipeline of connected component analysis with thresholded componen: area to classify noise. **[Publication accepted at CoCoNet 2019, Procedia Computer Science journal (Elsevier)]**

- **Extending The Performance of Extractive Text Summarization By Ensemble Techniques**
  The algorithm proposed in this paper gives a way to combine the strengths of all the existing algorithms to make text summarization more robust. A voting classifier is employed for the purpose.
  [Publication accepted at ICoAC 2019, IEEE Xplore]

ACTIVITIES

- Part of College Basketball team. Played and won several state level and national level tournaments.
- Won state level badminton singles championship
- Coordinated CJC MUN competition
- Excelled in several science and math olympiads
- Part of class quiz team that won several competitions
- Part of PESU IO as an SME (subject matter expert). PESU IO is a peer teaching platform which allows students to teach their juniors a myriad of subjects. Taught a GRE Crash Course for a class of 20 students.

TECHNICAL SKILLS

Languages: C, Python, JavaScript, HTML, CSS
Softwares: Adobe Photoshop, Word, Excel, Powerpoint.
Tools: Electron, Qlik Sense, Spyder
Operating Systems: Windows, Linux
Databases: MySQL

Anish M Rao

Student
Computer Science and Engineering
Email and User ID: anish01123@gmail.com
Ph: +91 9845091031

EDUCATION

PES University, Bangalore - *B.Tech*
Department of Computer Science and Engineering
VII Semester (Batch of 2016)
CGPA: 9.49 / 10

National Public School, Bangalore - *CBSE*
12th Grade: Percentage (PCMC + English): 95.6%
10th Grade: CGPA: 9.8 / 10

POSITIONS OF RESPONSIBILITY

Captain - Served as Captain of House Phoenix (one of four Houses) at National Public School in 12th Grade. This put me in charge of overseeing academic and sport events for all students in my House.

INTERNSHIPS

Summer Research Fellowship Programme (SRFP) *Research Fellow*
MAY 2019 - JULY 2019

- SRFP is a national-level fellowship offered by the **Indian Academy of Sciences (IAS)** to select students (362 engineering students this year) interested in research in STEM fields.
- Worked under **Dr. Atul Negi,** *Professor at the University of Hyderabad*, on Handwritten Character Recognition (HCR) in Telugu.
- Experimented with Visual Attention Networks to produce compelling results on real-world data from scanned documents. The dataset as well as recognition approach were later published.

JNResearch *Research Intern*
JUNE 2018 - JULY 2018

- Worked on developing a cutting-edge Invoice Analysis pipeline under **Mr. Anantharaman P.N**, *ex-Adobe Director- Engineering Manager.*
- I was the only second-year student selected and was involved in all design and implementation aspects of the pipeline from data generation to model architectures. I have hence developed a thorough understanding of some types of Deep Learning Networks.
- Worked mainly with Region Proposal Networks - a component of Region-Convolutional Neural Networks - and Recurrent Neural Networks.

SKILLS

Programming Languages : C, C++, R, Python, PHP, JavaScript
Software : Adobe Photoshop, Adobe Illustrator
Domains : Image Processing, Computer Vision, Natural Language Processing, Graphic Design

PAPERS

Offline Handwritten Telugu Character Dataset and Recognition
INDICON 2019, IEEE

Handwritten Text Extraction and Recognition from Forms
PENDING

SCHOLARSHIPS

Professor CNR Rao Merit Scholarship
Awarded to the Top 20% of students in each department at PES University. Received this scholarship in all semesters so far (6).

SOCIETY MEMBERSHIPS

IEEE Student Member
Member Number: 95238500

PROJECTS

Note: This is not an exhaustive list. Project Code and details can be found on my GitHub.

Handwritten Word Extraction and Recognition from Form Data
ONGOING

This project takes a scanned document as input and recognizes just the English handwritten words as output. Full pipeline from segmentation to recognition is implemented to help in digitizing handwritten forms that may be (semi-) structured or unstructured. The project uses a pixel-level classifier to separate the handwritten and printed parts of the page, followed by a custom segmentation strategy and Handwritten Text Recognition.

Solving Math Word Problems
AUGUST 2019 - NOVEMBER 2019

A Natural Language Processing project. Implemented a parser as well as Recurrent Neural Networks to solve math word problems. The two approaches were compared - a parsing approach versus unidirectional and bidirectional RNNs with LSTM and GRU cells. In addition, a hybrid approach that used hidden representations of the RNNs with an SVM was explored.

Handwritten Telugu Character Recognition
JUNE 2019 - AUGUST 2019

Explored handwritten character recognition in Telugu using Visual Attention Networks. Also created the largest dataset for the problem from scanned documents through an image processing driven extraction approach. The intent was to create a benchmark dataset to evaluate future solutions to the problem. The dataset creation and character recognition approach was accepted for publication in the IEEE conference, INDICON.

Cloud Computing - SelfielessActs
JANUARY 2019 - APRIL 2019

Built a scalable website - both front-end and back-end with AWS. Built with Node.js and Express with MongoDB. The functionality of the website - like posting pictures, signing up, etc - were implemented as microservices in Docker containers. Also implemented a load balancer with a custom strategy to spawn or destroy more containers, as required.

Suffix Trees
OCTOBER 2018 - NOVEMBER 2018

Implemented suffix trees for a large text corpus using custom terminators for efficient construction and retrieval. The custom terminators allow multiple documents to be represented by a single suffix tree and hence aid in quick searching of hundreds of documents (O(n) for creation and searching).

Restaurant Recommendation System for Groups
OCTOBER 2018 - NOVEMBER 2018

Built a recommendation system for *groups of users*. Implemented a mechanism to estimate present score from similar users who have visited the restaurant recently. This present score concept was used in conjunction with user and item similarity, and other Data Science tools and practices with Yelp open source data.

Invoice Analysis with Region Proposal Networks
JUNE 2018 - AUGUST 2018

This project was done as part of an internship at the startup JNResearch. Developed a Deep Learning solution for Invoice Analysis. Part of the project involves extracting relevant regions from the image of the invoice, achieved through Region Proposal Networks (RPN), part of larger frameworks like Faster-RCNN.

EXTRACURRICULAR

Robotics - eYantra
DECEMBER 2017

Finalist in the national-level robotics competition eYantra, organised by IIT Mumbai. Involved automating a drone to land on a moving ground-bot by tracking optical markers using an overhead camera. Finished in the Top 10 teams in India.

The Amateur Scientist - Volunteer
AUGUST 2016

Helped organize and run a workshop on electronics that creates music, called Song of Sensors. Taught high school students how to build a musical keyboard with basic electronic components.

LINKS

LinkedIn | GitHub | Medium

ANKIT PATHANGE (CS ENGINEER)
EMAIL ID:ANKITP999@GMAIL.COM
PHONE NO: 95911-68947
ADDRRESS : E-201,CHARTERED CORONET,BANNERGHATTA ROAD,BANGALORE 560076

PROFESSIONAL SUMMARY

Computer Science Engineer familiar with gathering, analyzing and organizing data for use by technical and non-technical personnel. Good understanding of statistical, algebraic and other analytical techniques. Also comfortable in using SQL , C,Matlab and ARENA software.
Highly organized, motivated and diligent with significant background in Statistics,R and Python.

PROJECTS AND COURSES

DATA ANALYTICS – IPL MATCH PREDICTION AND ANALYSIS

- Used previously existing datasets on IPL player performance to create an exploratory analysis on IPL statistics and also create match simulations based on expected player performance.

MACHINE LEARNING- UNIVERSITY ADMISSION PREDICTION

- Used different Machine Learning techniques such as logistic regression ,random forests and SVM

NLP LANGUAGE TRANSLATION MODEL

- Using NLP techniques to convert Modern English text to Victorian-Era English

BASICS OF STATISTICS (UNIVERSITY OF AMSTERDAM)

- Online Coursera Course(Grade : 96.8%)

EDUCATION

SRI KUMARAN CHILDREN'S HOME ,BENGALURU,KA 2011-2016

- Graduated with 9.4 GPA(Class X)
- Graduated with 91.8% (Class XII , Major – Science ,Minor - Economics)

PES UNIVERSITY , BENGALURU , KA 2016-2020

- Computer Science B-Tech (Specializaiton in Data Science)
- GPA: 8.19 (Upto semester six)
- Continuing education in Financial markets, Reinforcement Learning in Finance and Data Science Course on coursera.
- Coursera Profile: https://www.coursera.org/user/5c9613c5ea9fbca090d4637c64a40f53

SKILLS

- Information gathering and analysis
- Statistics, R and Python proficiency.
- Good understanding of SQL,Networking ,C Programming and OS
- Strong communicator

HOBBIES AND ACHIEVEMENTS

- Reading
- Dance (Part of shiamak dance troupe , also won 3rd place and represented school at an interschool dance event)

Anmol Garg

6th Semester, B-Tech.
PES University, Bangalore

Contact: +91-89875-23449
Email: namanmolgargag@gmail.com

Education

Year	Degree/Certificate	Institute/School	CGPA/Percentage
2016 – present	6th Sem, B-Tech.	PES University, Bangalore	9.71
2016	Class XII: CBSE Board	Chinmaya Vidyalaya, Bokaro	92.8
2014	Class X: ICSE Board	St. Xavier's School, Bokaro	93.2

Technical Skills

- Adept at solving problems and developing efficient processes using data structures and algorithms.
- Strong hold on multiple domains of computer science like data science, data structures, web development and working with frameworks.
- Work on Data Analytics, Machine learning and Deep Learning with libraries like matplotlib, scikit-learn, plotly. Knowledge of Cloud computing, virtualization and containers (dockers).
- Ability to examine variety of data to synthesize well-designed and substantial summaries and reports.
- Proficiency in Microsoft PowerPoint, Excel and Word .
- Knowledge of languages like C, SQL, Python, R, PHP.

Professional Training

- Industrial Training (Payroll Management System ERP using SAP and Oracle) in Steel Authority Of India Limited (SAIL), Bokaro Steel City (2017-18)

Work Experience

Intern at Center for Cloud Computing and Big Data (CCBD) -May'18 to Dec'18
Improving upon Schedulers of Apache Storm.

ArgByte (Machine Learning Intern) -Oct'17 to Dec'17
Prediction of fake users on various social networking websites using machine learning techniques.

Paper Publications

IronSense : Towards the Identification of Fake User-Profiles on Twitter using Machine Learning
Fourteenth International Conference on Information Processing (ICInPro) – 2018 (In Press)

Projects

Handwritten Text Extraction And Translation For Structured And Unstructured Form Data
The project is a novel approach towards extraction and translation of such handwritten fields in structured, as well as unstructured form data. The input to this pipeline is a scanned image of the form and the output is the translated handwritten fields.

SelfiLessActs : Creating backend for an Android App
The project includes writing REST APIs for the android app. The backend was written in NodeJS. The architecture was setup on AWS with AWS Application LoadBalancer. The backend is based on services model distributed across EC2 instances and multiple containers. A container orchestrator was coded in NodeJS which includes a loadbalancer and dynamic upscale and downscale depending upon the number of requests. The project also included use of Amazon RDS as our database.

Analysis of Crop Production and Rainfall in India
Project deals with the analysis of agricultural data which helps in better understanding of crop production in India. This involves using machine learning and advanced analytics to mine data for trends. We use these insights to come up with a predictor model and a recommendation model. (Project Link) (Video Link)

Fabric Segmentation Using Machine Learning
The model uses Transform and conquer approach to convert images into other forms and uses them to segment different kinds of shirts.

Image Processing and Enhancement Library For C++
The project deals with implementing image processing and enhancement algorithms compiled as a C++ library. The library supports jpeg images and we implement Gaussian Blur, Median Filter and perform Fourier transform on images. (Project Link)

Music Player In C
A Music player with UI (User Interface) completely coded in C language for UNIX using GTK. The player supported ogg and mp3 formats and used efficient Data Structures for fast retrieval of songs from playlist.

Implementing File Systems using FUSE
The project deals with creating our own File System in UNIX by implementing system calls for file operations that can be issued by Linux, develop internal data structures and procedures necessary to implement files and folders persistently.

Online Resume Builder and Code Editor
The website is designed for professional to manage there notes, links and videos in an easy to use. It uses Firebase as it's database. The website takes all your work and prepares a well formatted e-resume. It also contains code editor and compiler for several languages.

Interests

Image and Video Processing, Data Analytics, Machine Learning, Web Development and Deployment, Cloud Computing

Awards and Participation

- National Talent Search Examination (NTSE) Scholar.
- Participated in **Hackfest 2018** organized by Siddaganga Institute of Technology, Tumkaru
  Created a model for prediction crop production using the rainfall and crop production data of previous years
- Participated in **#CODE2K17** organized by Microsoft Innovation Lab, PES University
  Created a model to classify hand gestures into characters for people who are speech impaired as means to understand them.
- Gold Medal for Computer Science (ICSE).

AVEEK SAHA

+919901277995
aveek.s98@gmail.com

SKILLS

- Languages - C, Python, Java
- Backend - PHP, Node JS
- Databases - MongoDb, SQL
- Frameworks - Angular, Vue, Electron and Ionic.
- Big Data - Hadoop, Spark
- Machine learning and NLP - Keras, Tensorflow, NLTK, Gensim, Spark MLlib

EXPERIENCE

ALTIMETRIK, BANGALORE — *Summer Intern*

May 2019 - July 2019

Used NLP and deep learning to identify test cases that have similar semantic context to pre existing test cases to avoid duplicates.

INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR — *Summer Intern*

June 2018 - June 2018

Worked on an array of sensors to identify suspicious activity near parked vehicles and a mobile application to allow users to monitor the surroundings of the vehicle.

ELECTROSOFT CONSULTANTS, KHARAGPUR — *Summer Intern*

July 2018 - July 2018

Developed a software interface in Python, including GUI, based on a Raspberry Pi for a 3D Rock Surface Profiler.

EDUCATION

PES University, Bangalore — *B.Tech,* **Computer Science Engineering**

2016 - 2020, CGPA: 7.9 (Upto 6th semester)

Delhi Public School East, Bangalore — *CBSE,* **Science**

2014 - 2016, Percentage: 91.4%

Bethany High School, Bangalore — *ICSE,* **Science**

2007 - 2014, Percentage: 90.8%

PROJECTS

TWITTER FAKE NEWS NETWORK - An exploration of Twitter's Verified users and how likely is it that an article shared by the user is fake. Used **Graph Convolutional Networks** to train a model to learn graph embeddings and classify users based on their network neighbours and previous tweets.
Link - https://github.com/Aveek-Saha/TwitterFakeNet

CRICKET MATCH PREDICTOR - Use Apache Spark to predict the outcome of a cricket match ball by ball. A probability model, and a decision tree model was trained using **Apache Spark's MLLib** module in **Pyspark**.
Link - https://github.com/Aveek-Saha/Cricket-score-predictor

YOUTUBE TRENDING VIDEO PREDICTOR - Given a video this model predicts whether the video will feature on YouTubes trending page or not. Trained a Stacking classifier with KNN, Random Forest and Naïve Bayes with Logistic Regression as the meta-classifier using **scikit-learn**.

CONTAINER ORCHESTRATOR - A container orchestration system that implements load balancing, auto scaling and fault tolerance, that can be used with any containerised application. Made with **Node.js** and **Docker**
Link - https://github.com/Aveek-Saha/Orca-strator

SENTIMENT BASED STOCK PRICE PREDICTION - Trained various models in **scikit-learn** and **Keras** to classify daily tweets and news articles about Apple as positive or negative. Each day was given a sentiment score based on the overall sentiment. Using this stock price + sentiment score data a LSTM was trained to predict future stock prices.
Link - https://github.com/Aveek-Saha/Sentiment-based-stock-price-forecasting

LIVE CHESS - Used **Socket.io** with **NodeJS** to make a website where people can join chess game rooms and play with others around the world. The moves are reflected in real time.
Link - https://github.com/Aveek-Saha/Online-Chess

FUSE FILESYSTEM - A basic file system in user space written in **C using FUSE**. Supports operations like create, open, read and write files. Creating, renaming and deleting folders is also supported.
Link - https://github.com/Aveek-Saha/FUSE-Filesystem

DUSK PLAYER - A music player for desktop, which has over *eight thousand* downloads, built with **Electron and AngularJS**.
Link - https://github.com/Aveek-Saha/MusicPlayer

OTHER INTERESTS

I am passionate about contributing to free open source software as a way of giving back to the community, and I'm very active on GitHub, where I collaborate with people around the world to create helpful utilities and tools. I also write tutorials and guides on programming on my Blog. Apart from this, I like to draw and you can check out some of my artwork on Behance.

Avinash Chavan

avinashchavan1443@gmail.com | +91 8904453193 |
Bangalore

EDUCATION

Bachelor of Technology, Computer Science Engineering — *Aug 2016-May 2020*
PES University, Bangalore (7th Semester) — CGPA : 8.13
Semester GPAs: 7.50 | 7.00 | 7.78 | 8.87 | 8.68 | 9.0

12th grade, PUC — *Jun 2015-Mar 2016*
Shree Guru independent college of science ,Gulbarga — 88.6%

10thgrade, ICSE — *Jun 2013-Mar 2014*
St. Ambrose convent high School,Wadi Jn — 84.6%

TECHNICAL SKILLS & COURSES

Programming Languages : C/C++, Python.
Other Tools and Technologies : Javascript, PHP, MySQL, CSS,HTML, Flask,AWS,Google Cloud.
Courses (current and past) :
Data Structures, Algorithms, Operating Systems, Compiler Design
Computer Networks, Web Technologies, DBMS

INTERNSHIP

Intern at Ayotta — *May 2018-May 2019*
-Worked for the project *Digitizing answer booklet* and developed software that cropped images, and displayed to the evaluator.
-Had used MySQL database for storing the marks of the students scored for each question.

TRAINING AND HACKATHON

I3indya Technologies (IIT Bombay) (Bangalore) — *May 2018-July 2018*
-Successfully completed two days of workshop training where we used IoT technologies like ThingSpeak with microcontrollers.

The Data Science Hackathon 2017 — *Sep 2017*
-Participated in hackathon conducted by Computer Science and Engineering department, PES University, Bengaluru.

PROJECTS

SelfieLessActs — *Jan 2019-May 2019*
Cloud Computing
-A web application that is used to upload pictures of good things happening around and was built using Python consisting of REST APIs that automated the tasks.
-It was deployed on Amazon's EC2 instance and had a frontend both in the form of a website and an android application.

Implementing a File System — *Aug 2018-Dec 2018*
Introduction to Operating Systems
-Implemented a simple file system using fuse in C and have written functions to do all the basic file operations like delete, open directory , copy etc.
-It was designed and implemented in such a way that the files and directories created are persistent.

IPL Match Predictor — *Jan 2019-May 2019*
Big Data
-A match predictor built using data from the previous matches, uses decision trees to predict the outcome of each over in the match and simulates the match between two teams over by over.

E-Commerce Website — *Jan 2018-May 2018*
Database Management Systems
-Used PHP and MySQL to handle and manage the data on the backend of an e-commerce website.

ACN Software Solutions — *Jan 2019-May 2019*
Advanced Computer Networks
-Designed and implemented the network in Claynet(Nivetti Systems) and Cisco Packet Tracer for a given company scenario.

INTERESTS

Listening to music,Reading novels and Travelling.

BHAVANA.J
01FB16ECS088

#07, B block, Sai Gangothri Apts,
Ullal main road, Bangalore - 560 056
bhavanabhavana003@gmail.com
+91-9480193478; +91-8660739083

Completed 6th semester B.Tech exams in Computer Science Engineering at PES University, Bangalore with a good academic record and have keen interest and looking for practical exposure in the field of networking, web development, database administration and analysis.

Education

- **Pursuing B.Tech in Computer Science & Engineering** — **2016-20**
  PES University, CGPA – 7.64/10 (6th Semester)
- **2nd PUC** — **2014-16**
  PU Board, 91%
- **10th standard** — **2013-14**
  ICSE Board, 79.83%

Technical Skills

- Programming Languages – C, Python
- Web Technologies – HTML, CSS, JavaScript, PHP, MySQL

Personal Qualities

- Fast learner, hard working, dedicated and eager to learn.
- Can work independently as well as in a team.

Academic Projects

- **Designing a web page** — **Jan-May'18**
  As part of B.Tech. Mini project on Database Management System (4th Semester, team of three), we had done a simple project "Tour and Travels" in which we had the Admin and User sections. Using MySQL, the Admin could add, delete or update the tour packages. The Users could book the package they were interested in.
- **LED cube** — **Jan-May'18**
  As part of B.Tech. Mini project on Microprocessors and Computer Architecture (4th Semester, team of three), we had done a simple project "LED Cube" in which we had the programed the LEDs through Aurdino to turn on and off in different patterns.
- **Managing Web Page with Database** — **Aug-Dec'18**
  As a part of B.Tech Mini project on Computer Networks (5th Semester, team of three), we had updated our "Tour and Travels" web page to be able to be accessed through IP address of Server on the Client system by doing the necessary configurations.
- **Desiging a File System** — **Aug-Dec'18**
  As a part of B.Tech Mini project on Introduction to Operating System (5th Semester, team of four), we had to build an artificial filesystem using Fuse software. We had included features like creating and deleting directories, folders and files; changing permissions; opening and closing files.

- **Front-end compiler for the C language** — **Jan-May'19**
  As a part of B.Tech Mini project on Introduction to Operating System (6th Semester, team of three), we had to build a compiler for C language that uses Lex and Yacc tools to parse, and a C codebase to generate a Symbol Table, Abstract Syntax Tree, Intermediate Code and perform optimizations.
- **Face Recognition** — **Jan-May'19**
  As a part of Mini project on Machine Learning (6th semester, team of three), we wrote a program to detect faces in a live front camera by first collecting the data, training our machine and then detecting the faces using OpenCV and MathLab.

Trainings & Workshops

- Attended a 2 days workshop Ethical Hacking — 22nd & 23rd Feb'17
- Attended a week of summer classes on CompuMusic — 12th to 17th June'17
- Attended a 1 day workshop on WebVR — 17th Mar'18
- Minors in Management (MBA). This is a 12 credit course that included the following subjects — June-July'18
  - Financial Management
  - Organizational Behaviour & Human Resourse Management
  - Principles of Management
  - Strategies in Marketing and Management
- Completed an online course on Bot Development in Automation Anywhere University website. — June'19
- Did a 2 months internship at NeeliTech company. — June-July'19
  Worked on projects based on robotic process automation.

Extra-curricular Activities

- Active member of CSR(Collegiate Social Responsibility) club, PES University.
- Volunteered for Samarasa-Ninaada, PES University
- Volunteered for Aatmatrisha, PES University

Bilal Shakil Belgaumwala

bilalshakil1443@gmail.com | +91 8105424436 | #4,Shantha Residency,114,Wheeler Road,Cox Town, Bangalore

EDUCATION

Bachelor of Technology, Computer Science Engineering — *Aug 2016-May 2020*
PES University, Bangalore (7th Semester) — CGPA : 9.03
Semester GPAs: 9.00 | 8.54 | 9.13 | 9.13 | 9.23 | 9.17

12th grade, PUC — *Jun 2015-Mar 2016*
St.Joseph's Pre-University College,Bangalore — 92%

10thgrade, ICSE — *Jun 2013-Mar 2014*
St. Germain High School,Bangalore — 92.8%

TECHNICAL SKILLS & COURSES

Programming Languages : C, C++,Python,Java
Other Tools and Technologies : Javascript, PHP, MySQL, CSS,HTML, Flask
Courses (current and past) :
Data Structures, Algorithms, Operating Systems, Computer Networks
Web Technologies, DBMS

PROJECTS

Airline Tickets Sale — *Aug 2019-Nov 2019*
Web Technologies
-Developed a mock website to handle sale of airline tickets using Ajax, Comet and Ajax patterns.
-Implemented using Flask, Sqlite3, PHP and using REST.

SelfieLessActs — *Jan 2019-May 2019*
Cloud Computing
-A web application that is used to upload pictures of good things happening around and was built using Python consisting of REST APIs that automated the tasks.
-It was deployed on Amazon's EC2 instance and had a frontend both in the form of a website and an android application.

Implementing a File System — *Aug 2018-Dec 2018*
Introduction to Operating Systems
-Implemented a simple file system using fuse in C and have written functions to do all the basic file operations like delete, open directory , copy etc.
-It was designed and implemented in such a way that the files and directories created are persistent.

Packet Sniffer — *Sept 2018-Dec 2018*
Introduction to Computer Networking
-Implemented a packet sniffer which intercepts different packets in the network, classified on the basis of protocols such as TCP, UDP, HTTP, IP and displays them

SCHOLARSHIPS/AWARDS

Prof. CNR Rao Merit Scholarship – 2017 | PES University
Awarded for being among the top 20% performers in the First Year of B.Tech Computer Science Engineering.

D Ganesh Kumar Reddy
8105655111

Email Address: dgkreddy98@gmail.com
Communication Address: No.18 2nd Cross 1 A' Block JP Nagar 8th Phase Bangalore-560076

Academics

Examination Passed	Board of Examination	Institution	Year of Passing	Percentage/CGPA
10th Standard	C.B.S.E	Sri Chaitanya Techno School	2014	10 Points
12th Standard	C.B.S.E(MPC)	Sri Chaitanya P.U College	2016	93.2 %

Currently pursuing Bachelor's in Computer Science Engineering from PES University.

Completed 6 Semesters, with a CPGA of 7.91.

Awards and Accomplishments

- Was awarded Best Outgoing Student of the Year (2013-2014) in Class X.
- Cleared Nation Talent Search Examination(NTSE) Stage-I in the year 2013.
- Obtained 24th Rank in South Indian Physics Olympiad(SIPHO) in the year 2013.

Skills

- Python
- C
- MySQL/Postgres SQL
- Java
- Data Structures

Extra Curriculars

- **Active member of Collegiate Social Responsibility club.**
  Took Part and helped Organize various events counted by the CSR club in the college.
- **Member of Marketing Team of Entrepreneurship Cell.**
  Was responsible for Marketing of Various Events Conducted in college. Took part in various Talks and Mentorship programs helmed by various Start Up founders.
- **Was part of School Quiz Team.**

S

Projects

- **Segregation of Questions in a Question Bank Based on the Subject.**
  Project Synopsis :- The objective of the project was to segregate questions from previous GATE question papers into respective engineering subjects in order to be used as a reference for paper setting in internal exams of college.
  Worked on and Optical Character Recognition(OCR) and with tools such as "Google N-Gram".

- **RFID Based Attendance System.**
  Project Synopsis :- It is a simple RFID based attendance system where a student can Scan their RFID enabled ID Card for attendance. The entire project was done on "RASPBERRY PI"

- **Creating an iOS Chatbox Application.**
  Project Synopsis :- A simple chat-box app was created for iOS devices. Through the course of this project I learnt about basic usage of Swift programming language.

- **IPL Match Simulation Application.**
  Project Synopsis:- Based on previous match data collected over the years, the results of future matches could pe predicted. Used K-Means Clustering to cluster Bowler and Batsman data, Decision Trees to predict ball by ball outcome using the clustered data.

- **Java Compiler for Handling Switch Cases and While Loop.**
  Project Synopsis :- A simple Java Compiler that could handle Switch cases and While loops. Worked on "LEX" and "YACC" to design the compiler. Also generated intermediate code for the input code and performed optimization on it.

- **Built a Web App on AWS.**
  Project Synopsis:- Built a Web Application on Amazon AWS. Users to could use the application to upload photos of their Selfless acts and categorize them accordingly. Worked on Amazon AWS Cloud Platform, Docker Containers and Flask module in Python.

Resume

Name **GURUPRASAD.M**

Date of birth : 1 Jan 1998

Academics:

Currently studying in: VII semester Computer Science, PES University

Current CGPA: 9.16

XII std. (CBSE) marks: 478 / 500 (95.6%)

(from Sri Kumaran Children's home)

X std. (ICSE) marks: 580 / 600 (96.6%)

(from Sri Kumaran Public school)

Current electives: Topics in Deep Learning (Elective 5)

Past electives: Data Analytics (Elective 1), Big Data (Elective 2), Natural Language Processing (Elective 3) and Knowledge Management (Elective 4)

Courses and Internships attended:

Interned at **Walmart Labs, Bangalore** as a Software Developer intern for the months of June and July 2019. I was a part of the Sam's Club Order Management System.

Unified engineering course by JED-I at PES University, covering Basic Image Processing using OpenCV-Python.

Ordell Ugo Center at PES University – attended a boot camp on "Introduction to Data Analytics" using R and Python.

Center for Cloud Computing and Big Data Laboratory at PES University – attended a two-month summer internship from June to July 2018.

Research Project:

Title: "A Machine Learning Approach for Disease Surveillance and Visualization using Twitter Data"

The paper was presented at the Second International Conference on Computational Intelligence in Data Science (ICCIDS-2019), an IEEE Conference

Other Projects executed:

- Thermodynamics simulator using C++ graphics
- Fruit plucking robot using Arduino Uno
- Automated Captioning of Images using Deep Learning
- IPL Match Scores predictor using Spark
- Question answering bot using SQuAD dataset and LSTM

Strengths:

Mathematics, Programming skills in C, C++, Java, Python, R

Patient, persistent and smart worker, Good Team player

Passionate about:

Chess, Table Tennis & Mobile gadgets. I'm also an avid cricket follower and a passionate coder

Other Achievements:

- Secured State rank of 21 in NTSE 2012
- Participated in various coding contests like CodeChef Snackdown and ACM ICPC
- Member of the IET, PES University Student Network and the Centre for Data Science and Applied Machine Learning (CDSAML) at PES University
- Recipient of Prof CNR Rao Merit Scholarship award of PES University for the First, Second and Third years.

Personal details:

Address: 416, 8TH Main Road, Avalahalli BDA Extension, BSK 3RD Stage, Bangalore 560085

Email id: mguru1998@gmail.com

Mobile no: 9916151198

K.P. RACHITA RAO

#C5/8 SF, Ashiana Floors, Ardee City
Gurgaon, Haryana, 122011
Phone Number: 8105385959
Email ID: kprrao0610@gmail.com

OBJECTIVE

Intend to build a career with leading corporate of stimulating environment which will help me to explore myself fully and realize my potential.

EDUCATIONAL QUALIFICATION AND CERTIFICATE COURSES

COURSE	INSTITUTE/ SCHOOL	SPECIALIZATION	GRADE
BTech	PES University, Bangalore	Computer Science	8.01 (CGPA-First Six Sems)
12th Grade	D.P.S. Gurgaon	Science	91.6%
10th Grade	D.P.S. Gurgaon	-	10(CGPA)

- **Certification in** Java Basic Programming
- **Learning** Basic Android Application Programming

INTERNSHIPS

- **Summer Intern:**
  - June '18- July'18 -
    Completed a six weeks internship at **Maruti Suzuki** in the IT Department.
    - Worked with the Support Team and understood the advantages and problems arising with the softwares that were being used and tried to enhance them to cope up with the difficulties being faced.
  - June'19 –July'19 -
    Completed a six weeks internship at a startup, **Leena AI** in the front end Department.
    - Created and also edited the webpages for various websites using the React App Environment

TECHNICAL SKILLS

- **Programming Languages:** C, Python, (Learning C++)
- **Databases:** MySQL , Postgres
- **Web Technologies:** HTML, CSS, Javascript, PHP, Worked with React App

PROJECTS

- **Compiler Design**
  Designed a compiler for the if-else and for constructs of C programming language using C. Used the Yacc and Lex tools for programming. The project included creation of the symbol table, intermediate code generation, syntax tree and the optimized code (used Dag Optimization).

- **Music Player**
  A music player was made using C language and worked on an IDE. A linked list was used for making this application.

- **Pulse rate Detector**
  Had made a Pulse detector using an Arduino, which detected the pulse rate using a sensor and displayed it on an LCD screen. It also created a visual representation of the pulse rate using python.

- **File System Management**
  Made a File System Implementation using FUSE.

- **Computer Networking Mini Project**
  Made a two player game using Socket Programming.

- **Big Data Project**
  Created a project which did an analysis on IPL matches to predict the score and winner for a given test case.
  Approach1: Using Clustering (Unsupervised Learning).
  Approach2: It involved the use of decision trees (Supervised Learning).

- **Created an e-commerce website**
  It was an online portal similar to OLX for buying and selling books for university students. Had more focus on back end.

- **Created an e-commerce website**
  It was an e-commerce website for buying stationary. Had more focus on front end.

- **Cloud Computing Project**
  Created a cloud based web application called *SelfieLessActs* that is used to share anything that is good for the society that we observe.
  Allowed users to upload images of the act with a small caption and the category.
  Took care of Load Balancing, fault tolerance and auto scaling.

- **Machine Learning Project**
  The project aimed at predicting diabetes for people of age above 21. Created using SVM, ANN, and the Naive Bayes Algorithm.

PERSONAL QUALITIES

- Willingness to learn
- Keen Intellect
- Can work under pressure to meet deadlines
- Flexible team player

EXTRA CURRICULAR ACTIVITIES

- Participated in a college conducted Data Science Hackathon
- Volunteered in College Annual Tech Fair
- Participated in a college conducted Science Treasure Hunt
- Participated in an art competition in college

Siddharth Kailasam

3rd floor, 15/2,Sarada Nilaya, 18th cross Road, Malleshwaram, Bangalore - 560003
+(91) 7829215665 | k.siddharthvn13@gmail.com | Siddharth-Kailasam

"It's not what you achieve, it's what you overcome. That's what defines your career." **Carlton Fisk**

Summary

- Completed third year in B.Tech Computer Science (six semeesters) from PES University and expected to graduate by 2020.
- Worked on projects, research activities, teaching, organizing intra-college fests, internships and have also undergone training on broadcasting.
- Presented a technical paper in a conference (SUSCOM) and published under Elsiver SSRN digital library.
- Have loads of passion towards coding and enjoy solving complex problems in Computer Science.
- Specialization in Machine Learning and algorithms.
- Always ready to learn new things.

Internships

Larsen and Toubro Technology Services (LTTS)

3 June 2019 - 31 Jul 2019

SOFTWARE ENGINEER

- To implement a chatbot framework for FAQs
- End-to-end memory networks used.
- Word2vec and LSTM used to encode the input sentence.

Summer Projects and Research Activities

Center for Pattern Recognition Machine learning and Image processing (CPRMI)

1 July 2017 - 1 Aug 2017

- Experimentally proved how whitening (a pre-processing method in facial recognition) is not effectively utilized. Also suggested an alternative, which completely utilizes it.
- A technical paper highlighting the work was presented in SUSCOM 2019 and has been published.
- Link to the published paper - http://ssrn.com/abstract=3356197

PESU Academy

1 June 2018-1 Aug 2018

- Implemented a code for segregating an MCQ question bank subject-wise, subtopic-wise and difficulty-wise for the ease of setting questions for computer based tests (which is the internals held twice every semester in PES University).
- Certificate obtained.

Selected projects as a part of college curriculum

File System

5th Semester

- Constructed a file system for an OS operating on small memory like Aurdino, older versions of Raspberry Pi etc.
- Basic fuctions of a filesystem such as readdir, mkdir, rmdir, read, write, unlink, chmod and many more were implemented. Persistence was also implemented.
- File system was made persistent.
- Tested on Ubuntu 16.04.

Green Bus

5th Semester

- Implemented client-server model to mimic the famous app red bus.
- Server and client communicate using socket programming in PHP.
- Length-controlled TCP communication implemented.

QNA Chatbot in Tamil and English

5th Semester

- Implemented a chatbot which responds in Tamil and English.
- The chatbot is ambiguity resolving and context sensitive.
- GUI implemented using flask to aid visual enhancement for user.

Specializations

DATA ANALYTICS

NATURAL LANGUAGE PROCESSING

DIGITAL IMAGE PROCESSING

ADVANCED ALGORITHMS

REINFORCEMENT LEARNING

DEEP LEARNING

Trainings and Workshops Attended

Television Broadcasting

7 Dec 2016 - 27 Dec 2016

- Learned about all the equipments in the server room and their functioning.
- Also learned about other aspects of a TV Channel including editing, graphics, photography, HR, event scheduling and finance and accounting at a macro level.
- Exposed to the working of recorded and live shows from a studio.

IOT Workshop

24 Jun 2018 - 26 Jun 2018

- Extra credit course conducted by PES University.
- Exposed to usage of clouds, sensors and mobile app development using MIT AI2 Companion and their combinations to form useful apps.

Compumusic

26 Jun 2017 - 1 Jul 2017

- The course was about composing music using coding.
- Conducted by a visiting faculty of PES University.
- Later undertook a project under the same visiting faculty as a continuation, to program something which auto-generates a rhythm based on given parameters.

Voluntary Activities

Peer Teaching

3 Sep 2017 - 27 Oct 2017

TEACHER

- A voluntary teaching assignment taken up to clarify the doubts of my batch mates on Data Structures.

Prakalpa

10 Feb 2018

VOLUNTEER

- An intra-college fest coducted every year in PES University among departments.
- Represented CS department during the fest.
- Was a part of the team which won first place in "most appreciated stall" award and was the runner up in the "*overall award*"
- Was also responsible for queue management on the day of the fest.

Extracurricular Activities

CBSE South Zone Chess Tournament

6 Sep 2012 to 9 Sep 2012

PLAYER

- Interschool chess Tournament conducted by CBSE board
- Represented my school in board number 1.

Sadasivanagar Club Tennis Tournament

30 May 2014

- Runner up in a tennis tournament conducted in Sadasivanagar.

Education

PES University

7 Aug 2016-Present

B. TECH. IN COMPUTER SCIENCE AND ENGINEERING

- Anticipated graduation - 2020
- CGPA - 8.00

References

Shailaja S Sharath, shylaja.sharath@pes.edu

A. Vinay, a.vinay@pes.edu

Hobbies

- Chess
- Cricket
- Swimming

Keertan Krishnan

Computer Science and Engineering Student - PES University, Bangalore, India

(+91) 9740120654 | keertank189@gmail.com | keertank189 | keertank189 | Bangalore,India

Education

PES University, Bangalore, India — Bangalore, India

Bachelor of Technology(B.Tech) - Computer Science and Engineering

CGPA : 8.61

Delhi Public School, Bangalore North — Bangalore, India — 2015 - 2016

AISSCE - Percentage : 95

Delhi Public School, Bangalore North — Bangalore, India — 2013 - 2014

AISSE | CGPA 10

Projects

Crop Recommendation System for farmers(github.com/keertank189/Crop-Recommender)

- Built a crop recommendation system using Feed-Forward Neural Networks
- Based on information such as location,time, market prices, soil-type at location, rainfall at location etc, a neural network was designed to recommend crops to farmers that would maximize profit

Commentary generation for Basketball matches(github.com/keertank189/Commentary-Generator)

- Built an autonomous commentary generator based on event detection for basketball clips
- Preprocessing done with OpenCV, Convolutional Neural Network for classification built using Keras
- Built with larger goal of replacing human commentator

Compression of text files and searching in compressed space(github.com/keertank189/file-compressor-searcher)

- Designed a compression software for text files, with searching possible in the compressed space
- Implemented using the LZ77 algorithm, Burrows-Wheeler Transforms and FM indexing
- Achieved 25-40 percent compression, depending on the file

Genre Classification and Popularity Predictor for Audio tracks(github.com/keertank189/genre-classification-pop-prediction)

- Built a Neural Networks model for classifying audio tracks into genres, and predict the popularity of the song using Audio Spectrogram
- Implemented using the Librosa and Keras modules

PHP mini-compiler for switch and while statements (github.com/keertank189/php-compiler)

- Built a fully functional mini-compiler for the programming language PHP
- This compiler encompassed the switch and while constructs, and other basic required constructs

Artificial Intelligence System for playing spherical, 3- player, 3-dimesional Tic-Tac-Toe(github.com/keertank189/ai-system-ExWhyZee)

- Developed and built an autonomous AI system capable of playing a spherical, 3 player, 3 dimensional game known as ExWhyZee against itself or a human opponent
- Solution developed used game trees, mini-max algorithm and an evaluation engine

Apple Stock Price Forecasting using Sentiment Analysis(github.com/Avesk/Saha/Sentiment-based-stock-price-forecasting)

- Built a stock price forecaster for Apple, based off data obtained from Yahoo Finance and predicted by an LSTM Neural Network

Experience

Teaching Assistant - Data Science Course(UE18CS203)

Mentored by Ms. Preet Kanwal, Professor, PES University — Aug 2019 - Present

- Teaching Assistant for Data Science (Course Code : UE18CS203), mentored by Ms. Preet Kanwal. Helped students learn the practical applications of statistics using Python
- Taught 120 students basic Data Analysis techniques (Linear Regression, Logistic Regression, Collaborative Filtering), Confidence intervals and Hypothesis testing
- Project component of course included Exploratory Data Analysis and Machine Learning Component
- Handled allocation, management and trouble-shooting issues of projects

Subject Matter Expert - Data Science

PESU I/O - India's first and only peer-to-peer collaborative platform — Jun 2019 - Aug 2019

- Subject Matter Expert for Data Science in PESU I/O
- Designed and taught a 4-week long course in Data Science using Python to a strength of 15 students
- Course included basics in Python, distributions, statistics and Data Analysis Tools(Pandas, matplotlib, seaborn)
- Course also introduced Machine Learning algorithms such as Linear Regression, Logistic Regression, clustering and an introduction to scikit learn module

Summer Intern - Center for Data Science and Machine Learning(CDSAML)

Mentored by Mr. Raj, Professor, PES University — May 2019 - July 2019

- Worked on separation and analysis of code-mixed Twitter tweets
- Built a tweet analysor and separator for English and Hindi code mixed tweets
- Approaches tried include machine learning techniques such as Support Vector Machines and n-grams
- Project selected as top-2 summer projects of CDSAML. Acieved 87 percent accuracy on test dataset

Research Paper Submissions

Cost-Aware Video Downscaling

- Accepted for presentation at International Conference for High Performance Computing, Data and Analytics (HiPC) - 2019
- Poster Presentation - Student Research Symposium

Albatross Optimization Algorithm

- Submitted to Swarm & Evolutionary Computation Journal - Elsevier
- Bio-inspired metaheuristic optimization algorithm applied for training Neural Networks

Achievements

2019

- Secured first class with distinction in semester VI
- Organizer for PES University's annual Game Development hackathon, GGJAM - 2019

2018

- Secured first class with distinction in semester IV and semester V

2017

- Secured first class with distinction in semester II and semester III
- Successfully implemented a query – based data analyzer and visualizer for a given database as part of PES University's Data Science hackathon

2016

- Secured first class with distinction in semester I
- Secured 2nd overall in batch of 2016, AISSCE
- 1st in Computer Science (97/100) and 1st in Mathematics(95/100) in batch of 2016, AISSCE

Certifications

Reinforcement Learning

NPTEL — Nov 2019

- Completed 12-week Reinforcement Learning Certification Course(MOOC), NPTEL, offered by Indian Institute of Technology, Madras(IIT Madras) and instructed by Prof. Balaraman Ravindran

R programming

Coursera — Sep 2019

- Completed 4-week R Programming Certification Course(MOOC), Coursera, offered by John Hopkins University

Machine Learning

Coursera — Sep 2019

- Completed 8-week Machine Learning Certification Course(MOOC), Coursera, offered by Stanford University and instructed by Andrew NG

Residential Entrepreneurship Boot-camp

Center for Innovation and Entrepreneurship(CIE), PES University — Jun 2019

- Attended 8-day residential Boot-camp for contemporary innovation and entrepreneurship homework and methodologies

Machine Learning

Center for Data Science and Machine Learning, PES University — Apr 2019

- Attended 2-day machine learning workshop organized by the Center for Data Sciences and Machine Learning

Skills

Programming Languages

- Python, R, MATLAB, Octave
- C,C++, Java
- PHP, JavaScript

Toolkits/Modules

TensorFlow, Keras, Scikit-Learn, NumPy, Matplotlib, Pandas, OpenCV

Coursework

Machine Learning, Artificial Intelligence, Intro. To Data Science, Digital Image Processing, Natural Language Processing, Data Structures, Design and Analysis of Algorithms, Advanced Algorithms, Linear Algebra, Compiler Design, Web Technologies, Cloud Computing, Intro. To File Systems, Principles of Programming Languages

Extracurricular Activity

Winners, CBSE Clusters Football Tournament

Delhi Public School Bangalore North — Jan 2013

Winner, Poetry Slam

Delhi Public School Bangalore North — Oct 2015

Kiran S Hombal

PES University (CSE)
kiranhombal98@gmail.com
+91 8861064998

github.com/KSTARK007
linkedin.com/in/Kiranhombal

OBJECTIVE

Self-motivated, hard-working individual seeking to leverage my technical skills to develop next generation technologies and build robust solutions that are game changers.

EDUCATION

B.Tech in Computer Science
Specialization in **Systems and Core computing (for Networking)**
Departmental CGPA (with **honors**): **9.24**

PES University Bangalore
2016 - 2020

12th Grade Pre-University Education
Computer Science major
96% PCMC

ALVA'S, Moodubidire
2014 - 2016

10th Grade Central Board of Secondary Education
CGPA **9**
Computer Science **A1**

SDMCS, Dharwad
2013 - 2014

ACADEMIC ACHIEVEMENTS

- Contributing member of **SAFARI** group at **Carnegie Mellon University** since June 2019.
- Two months internship at **Carnegie Mellon University** fully funded by PES University.
- Recipient of **CNR Rao Merit scholarship** from PES University
- Contributing member of **CCBD** (Centre for Cloud Computing and Big Data) and **ALCODING** Club at PES University since 2018.
- Teaching Assistant for **Big Data** (2019) and **Cloud computing** (2019) courses
- Teaching Assistant for **Data structures** (2018) and **Design and Analysis of Algorithm** (2018) course
- Member of **ISFCR** (Center for Information Security, Forensics and Cyber Resilience) since 2019, **FOS** (Free Open Source) since 2018, **CDSAML** (Center for Data Sciences and Applied Machine Learning) since 2017
- Published a paper "IoT Based Road Travel Time Detection" in IEEE's ICACCI conference (2018).
- 2nd rank for the state and 11th rank internationally in National Cyber Olympiad (NCO 2016).

PROJECTS

- **Design and analysis of Medical Grade Network (Advance Computer Network)**
  Project aimed to analyze Business and Technical Goals of a medium sized hospital and to overcome the constraints by designing and simulating a *Medical Grade Network* based on a white paper "Medical Grade Network Design and Operation" by **Chesapeake NetCraftsmen** (2011) and "Cisco Medical-Grade Network" by **CISCO**. The network designed was simulated on the CISCO Packet Tracer. The network was designed and implemented for five 9 availability of the complete network, Intrusion Detection system (IDS), firewalls, DMZ dynamic routing protocol (OSPF), network management protocol (SNMP) and high scalability was provided by implementing good hierarchy.
  Team Size: 2. **Role**: Implemented all mentioned Protocols and services on CISCO Packet tracer and partly on physical hardware (VMs).

- **Container Orchestration Tool (Cloud Computing)**
  Project aimed to develop *Container Orchestration Tool* for fail safe scalability of web-services. Requirements included
  i) Load-Balancing the API Requests between the available containers.
  ii) Handle crashes by spawning a new container depending on the locality and priority of the container.
  iii) Scale the containers automatically using requests/sec data and threshold set by the user.
  iv) Keep the tool generic to support various container types using configuration files.
  Team size: 2. **Role**: Implemented load balancing, crash handling, auto scaling, spawning of different VM dynamically on AWS. Also implemented testing tool for automated Testing.

- **QoS of Data Center using Mesos (CCBD)**
  Project aimed to improve Quality of Service of a data center by dynamic resource allocation using mesos Schedulers. DAG variance-based algorithm was developed to calculate inputs for the schedulers. The algorithm was fine tuned based on the data (system resource usage values) extracted by running stressful workload suites on the data center. Workload specific, fine-grained resource allocation was achieved.
  Team size: 4. **Role**: Deploying Services on cluster, configuring and deploying the clusters, kernel modifications to collect data, Running workloads.

- **Memory Pre-fetchers using Engram clustering (SAFARI, CMU) (June 19 - till date)**
  Project aims to optimize Cache utilization in memory intensive applications. Clustering algorithm at the memory address level was developed to use the correlation of distance between the addresses and the frequency of their access as parameters to cluster and populate the LRU-Cache in the memory. This model outperforms the basic LRU implementation in Linux Kernel for workload that are oriented towards statistical applications
  Team size: 1 **Role**: Complete implementation, testing, analysis and report generation

COURSE WORK PROJECTS

- **Cloud computing services like Dockers, AWS, GCP**
  worked on a project **Container and API Based Scalable Social website** as a part of **Cloud Computing** course for the duration of 16 weeks during which we implemented a cluster of Containers which communicate between each other and client using secure API's.

- **Cyber Attacks (Computer Network Security)**
  Performed different types of attacks like
  i) Denial of Service: SYN Flood Attack, Amplified DNS Attack, Application level DOS attack.
  ii) Man in The Middle: ARP Poisoning, DNS Poisoning, Screen capture, Keylogger, JS injection using **MITMF**
  iii) Password Cracking: using Hashcat and John the Ripper
  iv) Intrusion Detection System (IDS) Setup Rules using SNORT, Built Dynamic Access Control Lists

- **Big data services like Hadoop, Spark, Zookeeper**
  Did a project named **PageRank using Spark and Hadoop** as a part of **Big Data** course for the duration of 16 weeks during which we implemented a cluster of VM where **HDFS** was the File system, **Spark** as the computation service, **Zookeeper** for maintenance.

- **Load-balancing, Virtual Private Network**
  Did a project **VPN and Load-Balancing using VM's** as a part of **Computer Networks** course for the duration of 12 weeks during which we implemented a VPN service using **Python, C, Nginx** and **Vagrant**. We also implemented Load-Balancing service using **Werkzeug (Flask)** and **Nginx** for master.

- **Selection Sort using x86 Assembly level coding**
  Did a project to implement **Selection Sort using x86** assembly level coding as a part of **Digital Design and Computer Organization** course for the duration of 4 weeks during which we implemented Selection Sort using **x86 instruction set**.

- **Maze Solving ROBOT - Raspberry Pi**
  As a part of **Microprocessor and Computer Architecture** course we built a Robot using Raspberry Pi board and Rover components which was capable of solving a maze given to it dynamically by the user. UI was built using HTML, JS, CSS. Algorithm and Bot control using Python and **RPi.GPIO library** was implemented in 12 weeks.

- **Operating Systems and Compilers**
  Did a project **File System using Hash Tables** as part of **Operating System** course for the duration of 12 weeks during which we implemented a file system using **FUSE** and C. We used **Hash table** for tracking the next Data Node which made it faster compared to the linked list implementation of the same.

  Did a project **C# Compiler for all stages of compilation** as a part of **Compiler Design** course for the duration of 16 weeks during which we implemented all stages of the front end of the compiler using **LEX, YACC** and **python**.

- **Machine Learning, Artificial intelligence projects**
  Did a project to implement **AI based Battleship game player** as part of **Artificial Intelligence** course for the duration of 8 weeks. An AI algorithm was designed and implemented to play a Battleship board game with a success (WIN) rate of 99.98% when played against random algorithm.

  As part of **Machine Learning** course did a 12 weeks project to track **Screen Time of an Actor**. Each frame of the video was extracted and was run with the trained machine learning model using **TensorFlow, Keras and CV2**. The screen time of the actor was calculated based on the number of frames a particular character was identified.

  Did a project on **Word Suggestion and Compression tool** as a plug-in to a blogging site as part of **Data Structure** course for the duration of 8 weeks during which we implemented word Suggestion in C algorithm using **Trie Data Structure**. We also implemented Compression Algorithm in C using **Huffman Coding**.

- **Data Scraping and Recommendation Systems**
  Did a project **Auto News updating and clustering** as part of **Principles of programming language** course for the duration of 6 weeks during which we scraped the data from different News web-sites and aggregated them according to a sub-domain using **Perl** and reorder the domain based on the user interest using **python**.

  Did a project **Game Cataloging and Recommendation System** as a part of **Web Technologies** course for the duration of 8 weeks during which we implemented a *Reinforcement Learning* based *Recommendation system* using **Python** and **PHP** which took user data as its input and evolved as the users data base increased.

  worked on a project **Product review based Recommendation system** as a part of **CDSAML** center for the duration of 24 weeks during which we implemented a web scrapers using **BeautifulSoup4** for review of a specific type of product on multiple web-sites, build a feature extractor and analyzer using python.

PROGRAMMING LANGUAGES, TECHNOLOGIES AND SKILLS

- **Python, C** - Certified by PES University.
- **JS, PHP, HTML, CSS** certified by PES University.
- **C++**
- Underwent Training on **Data Structures and Algorithms** from **CodeChef** (2019).
- Underwent Training on Distributed Systems Micro Experience from **CRIO** (2018).
- **Hadoop, HDFS, Spark, Hbase, Mesos, Apache Zookeeper** certified by PES University (2018).
- **Vagrant, Nginx, MongoDB, Dockers, Kubernetes, Snort, emu8086, Postman.**
- **AWS** and **GCP**.

HOBBIES AND INTERESTS

- Solving Challenging Puzzles
- Learning new Programming Languages and Technologies
- Reading books and Tech blogs
- Traveling
- Foodie
- Playing Soccer, Table tennis, Badminton
- Playing open world Games

NON-ACADEMIC ACHIEVEMENTS

- **CORE** member (Technical Head) for AT-18
- **Lead Organizer** Ethical Hacking workshop, AT 17, Epsilon2k17, Webbed 2017
- volunteered for TAS-16.
- **Captain** of SDMCS soccer team from 2012-2014. Team was runners up in coco-cola cup 2013(under 16) and won SMC 2014.
- **Class Representative** (E/C/S IIT class) in ALVA'S for the academic year 2015-2016.