


# APOORV JAIN

+91-9654748807

 [apoorv.jain25@gmail.com](mailto:apoorv.jain25@gmail.com)

 /in/apoorv-jain-110769100

## EDUCATION:

QUALIFICATION	INSTITUTION	UNIVERSITY/BOARD	PERCENTAGE/ CGPA
Bachelor of Technology (Computer Science) (2015-2019)	Bharati Vidyapeeth's College of Engineering, New Delhi	G.G.S.I.P.U. New Delhi	<b>8.6/10</b> (aggregate,6 Semesters) Presently- Final Year
High School (XII) (2013-2015)	Kendriya Vidyalaya, Rohini New Delhi	C.B.S.E.	<b>94.20%</b>
Secondary School (X) (2012-2013)	Kendriya Vidyalaya, Rohini New Delhi	C.B.S.E.	<b>10.0 (CGPA)</b>

## EXPERIENCE:

**Artificial Intelligence & Deep learning Intern, Advait Labs, Chennai** Sept, 2018 - Present  
Large-Scale Intelligent surveillance system which includes Deep Learning based algorithms for face recognition and object recognition, Real-time person & vehicle tracking and number plate detection.

**Research Intern (Computer Vision)** June, 2018 - Sept, 2018  
**Artificial Intelligence Lab, University of Delhi**  
Developing a face-recognition system for raspberry pi using various algorithms like PCA, LDA, CNN, Hopfield neural networks. These algorithms are implemented using cascade classifiers and Eigenfaces & FisherFaces in python with the help of OpenCV, dlib, scipy.

**Google Code-In Mentor, Sugar Labs** Nov, 2017 - Jan, 2018  
Mentoring pre-university student to complete various tasks in the domain of python and C++ such as basic data structure games, and other activities. Helping them with the coding and documentation part to contribute towards open source community through Github.

**Data Science and Web Development Intern, IncubateIND, Noida** Oct, 2017 - Dec, 2017  
Created flask templates for the electronic check-in system for an event management system and deployed it through django. Developed the website using WordPress theme and formatting and cleaning of data using pandas, numpy, scikit-learn in python and export into excel sheet.

**Research Development Intern, USIT, GGSIPU, Delhi** Sept, 2017- Oct, 2017  
*Mentored by Prof. Rinkaj Goyal, Department of CSE*  
Classification of documents on the basis of sentiments analysis of the text using NLTK in python; crawling of data from various research papers using a web crawler, created using scrapy in python which crawls on the basis of CSS formats; Created & manipulated structure, functions of complex networks using NetworkX.

**Machine Learning Intern, FIS, Gurugram** June, 2017 - July, 2017  
Data cleaning, formatting and searching in .txt and .csv files using NLTK, RegEx, numpy and pandas in python, drawn frequency curves using matplotlib. Created an artificial chat bot for the customer assistance for Vodafone having basic functions like greeting and handling database queries. Data mining on the reviews of FIS using IBM SPSS tool and analyzing sentiments.

**Graphics Designing and Digital Marketing Intern, AdSells Private Limited, Bengaluru** July, 2016  
Designed and edited posters and documents using Adobe Photoshop for the publicity of various events, created videos using various templates in Adobe aftereffects. Digitally publicized the events on Facebook.

**Digital Marketing and Web development Intern, Academistic.com, Delhi** Feb, 2016 - Apr, 2016  
Designed templates and page layout using Adobe photoshop and developed the front-end of the website in HTML, CSS and JavaScript on sublime text, promoted the product over social media.

## TECHNICAL SKILLS:

**Languages-** C, C++, Python, Java, HTML, CSS, JavaScript, SQL.

**Frameworks-** MySQL, PL-SQL, Git, Django, Flask, STL, Tensorflow, dlib.

**Operating Systems-** Windows and Linux.

**Software-** Adobe Photoshop, Adobe aftereffects, MS PowerPoint, MS Word, MS Excel, Anaconda, Visual studio, Eclipse, IBM SPSS, Sublime Text.

## PUBLICATIONS:

Apoorv Jain, Priyanshu Tyagi, Varun Srivastava, "Image retrieval system after image denoising", IHCI 2018.(accept)

## RELEVANT COURSES:

Algorithm Design & Analysis, Artificial Intelligence, Compiler design, Computer Graphics & Multimedia, Computer Networks, Computer Organization and Architecture, Data Structures in C, Databases, Java Programming, Operating Systems, Software Engineering, Unix Programming, Web Technologies. (HTML, CSS, JavaScript)

## SELECTED PROJECTS:

All projects available on git: <https://github.com/apoorvjain25>

**Face recognition using Raspberry Pi:** Implementing various face-recognition algorithms like PCA, LDA, CNN, CHNN in real time to compare accuracy and speed using opencv, dlib in python.

**Image retrieval system after image de-noising:** An opencv based image retrieval system which provides the similar images as per the query image by plotting the color histograms of every image in the database and then find the similarity using feature vector.

**E-Challan Generation:** A python implemented code to detect various offenses committed by the drivers such as over speeding, red light jumping using CCTV recordings, and then detecting the number plates of the concerned vehicle and thus generating challan. Implemented using opencv, scipy.

**Political tweet analyzer:** Political tweet analyzer using NLP and python to predict election results. The political analyzer is currently configured to analyze political opinion and predict election results.

**SMS Classification:** An SMS classification using MLPClassifier implemented by support vector machine to classify messages as ham, spam or info.

**Digits Classification:** A handwritten digits recognizer implemented using opencv after text extraction from images

**Real time Object Recognition:** An object detection code in python to detect and tell about objects using web-cam as implemented through pre-trained CNN of ImageNet.

**Cruise Management System:** A data structures and file handling based cruise management system to store the details of boarding passengers and the facilities provided to them using SQL database.

**Games:** A suduko and Chess game in C++ using data structures and OOPS.

## COURSES:

- Introduction to Machine Learning, [IIT-Kharagpur](#), NPTEL-2017.
- Design & Analysis of Algorithm, [IIT-Madras](#), NPTEL-2017.
- Data Science Specialization, [University of Michigan](#), Coursera-2017.
- Full Stack Web Development using Django, [Udemy](#)-2016.

## AWARDS:

- Selected for 6 months Internship @[United Nations Development Program, Copenhagen, Denmark](#).
- Rank **53 out of 6300** in [Sapient Triathlon](#) hackathon organized by Dare2Compete.
- Finalist @[ZS Case Challenge 2018](#), team under top 40 all over India.
- Finalist @[Smart India Hackathon 2018, Nagpur](#), Develop an E-challan system for Govt. Of Chattisgarh.
- Winner @[Campus Champs](#), An online hackathon, Skillenza. (3<sup>rd</sup> out of 148 teams)
- Winner @[Code-off 2017](#), 24 hours hackathon, IIIT-D:Developed a blockchain based Web app to help farmers.
- Finalist @[Hack2Innovate](#), 30 hours hackathon, Gurugram: Developed RT hand gesture recognition in python.
- Selected for an Internship @[University of Waterloo](#), Canada & @[Fraunhofer Society](#), Germany.
- [National Programming Aptitude Test-2017](#), Score: 607/800, **81 Percentile**.
- **1<sup>st</sup> Position** State level quiz on Swami Vivekananda.
- State Level Award, Bharat Scouts & Guide.
- **3<sup>rd</sup> Position** Optics fare, University of Delhi, 2015.
- National level Quiz participant, RBI Quiz, 2014.
- **1<sup>st</sup> Position**, Equipotential event, IIIT- Delhi, 2014.
- **2<sup>nd</sup> Position**, School level, National Science Olympiad-2013.

## POSITIONS OF RESPONSIBILITY:

- **Technical Executive:** BVP Computer Society of India, BVP Google Developers group, 2015-16.
- **Treasurer:** Startup Masterz Cell, 2015-16.
- **Manager:** Alumni Cell, BVCOE, 2016- Present.
- **Head Boy** (2015), **Vice Head Boy** (2014), Kendriya Vidyalaya, Rohini.
- Volunteer in [Commonwealth Games-2010](#), Delhi.
- **Fest Manager and organizer** in many technical and cultural fests of BVP-BVEST, BVPIEEE, BVPCSI, BVPISTE.