

Sandeep Chatterjee

Masters in Computer Science

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About

A computer science student who loves to learn new things and solve real life problems. Very enthusiastic about working in the field of Machine learning and Natural Language Processing. I have done small projects in R Language, Python Programming Language & Artificial intelligence as well. I am used to handling a variety of data pipelines and databases, included unstructured ones for texts. I have prototyped some ML products, with architecture possibly building from scratch. Looking for an opportunity to work in these fields so that I can boost up my skills, learn new technologies and develop skills by doing hardwork and dedication towards work.

Education



MSc Computer Science - Banaras Hindu University

Department of Computer Science, Institute of Science

BHU-PET - 1st AIR (310 Marks) conducted by NTA.

Nov 2021 - Aug 2023 , University Campus, Varanasi

(currently pursuing)



BSc (Hons) Computer Science - University Of Delhi

Department of Computer Science, Computer Science

Activities and societies: Participated in Hackathon IIITD, codecontest Rendezvous-IIITD,

Core Team at Maniera, the fine arts society of the college

July 2018 - June 2021 Keshav Mahavidyalaya College, Pitampura

Ranked 2nd in the batch with Computer Science Hons.

GPA : 9.67 / 10



Rajkamal Saraswati Vidya Mandir

12th CBSE, Science 2014 - 2016

Ag. Percentage - 95% Biology, Physics, Chemistry, Mathematics, English, Physical Ed.

10th CBSE 2004 - 2014

CGPA : 10 / 10 - Science, Mathematics, Social Stud., Sanskrit, English, Comp Science.

Experience



Student Editorial Board Member

Department of Computer Science, University of Delhi

Aug 2019 - Jul 2020 (1 year)

Worked as graphic designer and editor for the college magazine



PR Head at Fine Arts Society of KMV

MANIERA

Sep 2018 - May 2020 (1 year 9 months)

Loved Visiting art galleries and exhibitions. Passionately loved Fine Arts - Charcoal Sketching, Calligraphy and material painting.

As PR Head my job was to connect with and convey to the presidents and representatives of other fine arts clubs and societies



AyurBiology Sri Venketeshwara, DU - CSIR, IGIB, New Delhi

CSIR India

May 2019 - Jul 2019 (3 months)

Worked on a classification model which can predict the prakriti type based on various physiological characters. Performed, data processing, cleaning and clustering of collected data from survey questionire and prepared the data for training.

Courses & Certifications



1st Prize in Algorithm Design Competition - AlgoHolics

- Department of Computer Science, University of Delhi



CS50 - 50 days of Computer Science (online) - Harvard University



Angular Js 5 - UdeMy



CodeInPlace - Stanford Online



Training in Linux Administration - The Linux Foundation

Projects

- **(Ongoing) Analyzing Expansion & Redundancy in Answers using NLP**

This project is being done by me as mini-project under [V. Singh](#) (HoD). The idea is, when students are asked to write an answer on any topic, but in cases when they have lesser content , very lesser than the word limit, Students tend to expand the answers by using fillers and repeating the same sentences. My aim is to develop a handy tool, that takes some answer as input then after analysis produces beautiful charts showing the redundancy

- **(Implementing) Automated Evaluation of Quality of Descriptive**

Answers using ML: Idea is to develop a system that automatically scores essays and other descriptive answers by analyzing the language using NLP , mentored by [P K Mishra](#)

Project Synopsis:

https://docs.google.com/document/d/1_kVMigUY3Tw6nLg6n9FrVTm34jl4FpR9/edit

- **Mail Classification (using R)** - implemented a binary classifier using own code (without using inbuilt library) that classifies mails received in the form of text documents into spam or ham, under the guidance of [Nidhi Passi](#)

Code: <https://github.com/SandeepChatterjee66/spamORham>

- **HoneyBot (python)** - A small project in python, done during initial years of college, built this Internet Relay Chat in python, I contributed by translating java codes into python technology, and adding functionalities of flask, with collaboration of my peer python learner friend [A.Jahangeer](#) from Mauritius,

Code: <https://github.com/SandeepChatterjee66/honeybot>

- **Clustering Articles from Newsgroup 20 dataset -**

This dataset is a collection newsgroup documents. The 20 newsgroups collection has become a popular data set for experiments, The 20 newsgroups dataset comprises around 18000 newsgroups posts on 20 topics. I tried clustering them to observe the number of main topics and subject areas and number of articles in each of them. Using scikit-learn library in python.

Code: <https://github.com/SandeepChatterjee66/NewsGroup-Clusters>

- **Clustering Multi-Dimensional Biological Data** - collected data from 200 people about various health and bodily parameters, performed clustering to observe three clusters. Did it in team with collaboration of biomolecular students from Venky College.
- **Link Shortener in PHP** - made one link shortener and url redirecter made using php, inspired by bit.ly also added features to visualize analysis of click links. It was one of my beginner project I did from scratch

Deployment (php hosted): <http://mylink.rf.gd/>

Achievements and Activities

Event Coordinator of Coding Contest

Organized All India level Coding Contest for algorithmic challenges, with around 1000 participants all over the country.

Founding Member of Fine Arts Club

Under supervision of Student Advisor [Amiya Sir](#) and [Dean Ma'am](#), became the coordinator of our Fine Arts Club of Institute of Science, BHU. Learnt leadership skills, which give me confidence to lead our first project of Rangoli Team from front.

First Prize at Algorithmics - in First Year at college (DU)

During college fest, a two day algorithm design contest, having around 500 screened participants all around Delhi. Held on the occasion of [Sankalan](#) the annual fest of DU.

Class Coordinator and Training and Placement Coordinator

Had the experience of holding responsibilities as representative of our MSc class, developed my leadership and coordination qualities alongwith team work.

BHU PET AIR Rank 1

Got AIR Rank 1 in the entrance of BHU. Took the exam in 3 subjects, out of which received rank 1 in 2 subjects of BHU MSc Computer Science and MSc Computational Science. Also got rank 12 in JNUEE'21 for MCAM.

Qualified GATE 2021 with good rank in first attempt

Attempted GATE 2021 in the branch CSE for the first time, got 40 marks qualifying the competitive exam.

Platinum Badge in Python Exam of NPTEL

Was one of the course toppers of the course offered by NPTEL in Joy of Computing using python 2021 session. Name was published in the course toppers hall of fame page. NPTEL is a free learning platform by govt of India under ministry of education.

Skills

- Python (Programming Language)
- Android Development
- R Language
- Web Development
- Php laravel
- Power BI (learning)
- SPSS (learning)