ANSHUL GUPTA

Available: January 2022 – Onwards

Chandigarh, India

+91-8146548281

anshulg954@outlook.com

www.anshul.codes

LinkedIn

EDUCATION

B.E.	Chandigarh College of Engineering and Technology,	July 2018 – Present
	Affiliation – Panjab University, Chandigarh,	Expected Graduation – July 2022
	Computer Science and Engineering, CGPA – **9.39/10** (Pursuing)	
	Related Courses – Data Structures and Algorithms, Artificial Intelligence	
	Student Member: ACM (International Society for Computing)	

COMPUTER SKILLS

Programming: C, C++, Python, R

Frameworks: Django

Databases: MySQL, MongoDB

Web Programming: HTML, CSS

Operating Systems: Linux, Windows

Software: Git, Visual Studio Code, PyCharm, TexStudio

Technical Content Writing: TeX

Industrial Knowledge and Interests: Data Structures and Algorithms, Object-Oriented Programming, Data Science, Machine Learning Algorithms, Neural Networks

INDUSTRIAL EXPERIENCE

Artificial Intelligence Research Intern   April 2021 – Ongoing

Design and Innovation Centre, UIET, Panjab University, India

- Working on AI based Predictive Maintenance for early prediction of faults in machines.

Molecular Dynamics and Data Mining Intern   November 2020 – June 30, 2021

Dept. of Biophysics, Panjab University

- Built a Peptide Utility Sequence Search Application to find the sequences having the searched structure using Python Programming.
- Worked to find characteristic features for Helix-Helix interactions of proteins in peptides.

ACM India Summer School in NLP 2021   July 05, 2021 – July 17, 2021

Microsoft, ACM India Council, and IIIT Hyderabad

- Selected to work on foundational knowledge in Natural Language Processing, the current state-of the-art methods, and future trends.

Short Term Attachment Programme   March 2021 – Ongoing

ICMR – Center for Innovation and Bio-Design (CIBioD), PGIMER, India

- Attending the STA Programme where researchers, experts, and educationists share their knowledge for the social good in different domains.

RESEARCH EXPERIENCE

Design of Connected List based Approach for Live Variable Analysis in Intermediate Code Optimization

(Submitted Journal Work)   April 2021 – June2021

Advisor: Dr. Gulshan Goyal (Assistant Professor, Dept. of CSE, CCET)

- Described an algorithm to check whether a variable is live or not using the creation of a connected list as an auxiliary data structure and the variables as a bit string, stored in order of ud-chains.

An OWA based MCDM framework for analyzing multidimensional Twitter data: A case study on the Citizen-Government Engagement during COVID-19 *(Submitted Journal Work)*   July 2020 – February 2021

Advisor: Dr. Ankit Gupta (Assistant Professor, Dept. of CSE, CCET)

- Proposed a novel multi-criteria decision-making based framework that makes the use of Ordered Weighted Operators to summarize and analyze the various Twitter parameter values.

An inquisitive prospect on the shift towards Online Form of Digital Media, before, during, and after the COVID-19 Pandemic: A Technological Analysis *(Submitted Conference Work)*   February 2021 – March 2021

Advisor: Dr. Sunil K. Singh (Professor and HoD, Dept. of CSE, CCET)

- Discussed the role of COVID-19 in the surge of E-Learning Platforms, predicted the number of Digital Media users to rise to 796.45 million by 2031, and the frauds as a shortcoming.

Impact of Artificial Intelligence and Internet of Things in Modern Times and Hereafter: An Investigative Analysis *(In Press, AAP & CRC Press, Taylor & Francis Group)*   October 2020 – February 2021

Advisor: Dr. Sunil K. Singh (Professor and HoD, Dept. of CSE, CCET)

- Analyzed the trends in Artificial Intelligence using the Growth of Startups in different fields and predicted the number of connected IoT devices to increase to 65 billion by 2032 using forecasting.

An Exploratory Analysis on the Unfold of Fake News during Covid-19 Pandemic *(In Press, Springer Book, Smart Systems: Innovations in Computing (SSIC-2021) Ch. 24)*   July 2020 – December 2020

Advisor: Dr. Ankit Gupta (Assistant Professor, Dept. of CSE, CCET)

- Surveyed various websites and research papers to portray the actual Fake News spread.
- Built a Web Crawler to gain necessary keywords.
- Performed fetching of tweets, and visualized the results to portray the enormous spread of faux news in March, 2020.

TOP PROJECTS

WorkOn – Savor the Flavor of Work   October 2020 – November 2020

A Django based web-app, connecting three different apps each having its own task, for corporate following the themes of AatmaNirbhar Bharat and Post-Covid World in a 72-Hour Long Hackathon. Check Here

True News Vs Fake News   May 2020 – June 2020

Worked on Classification based Machine Learning and Deep Learning Algorithms to visualize, classify and predict whether a news is true or fake based on a given dataset. Check Here

Room Rent Prediction   June 2020 – July 2020

A Python based Deep Learning Module, where I gained hands-on experience of developing Deep Learning Model from scratch without making use of any third-party apps or external libraries. Check Here

Rest APIs   December 2019 – January 2020

Built Rest-APIs for User On-Boarding, and Interaction, that are common in a Social Networking Application and tested them using Postman. Check Here

ACADEMIC ACHIEVEMENTS

Merit Scholarship (2nd in Class)   Academic Year 2019-20

Stood 1st in Internal Skill India Hackathon, organized by IIC (Innovation Cell)   February 6, 2020

Microsoft Technology Associate, in *Introduction to Programming with Python*   February 4, 2020

POSITIONS OF RESPONSIBILITY

Chairperson at CCET ACM Student Chapter (CASC, 2021).

Reviewer for Journal of Bio-molecular Structure and Dynamics, Taylor and Francis Group.

Student In-charge of College Website and Development Team.

Managed and organized a four-day national webinar on the role of technology in making India Self Reliant, headed by *CSTT, Indian Ministry of Education*, October 26, 2020 – October 29, 2020.

PRESENTATIONS AND INVITED LECTURES

Lecture and a Hands-On Session, on "*Python Fundamentals*" as a part of student talk conducted by **CCET ACM Student Chapter,** April 24, 2021.

Seminar, on "*Artificial Intelligence, Machine Learning and Internet of Things in National Language*", as a part of A four-day national webinar by technology experts on the role of technology in making India Self Reliant, by **CSTT, Indian Ministry of Education**, October 26, 2020 – October 29, 2020.

Lecture and a Hands-On Workshop, on "*Importance of Open Source, Hacktoberfest and GitHub*" as a part of **Let's Collaborate Together – Hacktoberfest 2020 by ACM CCET,** October 8, 2020.

Lecture and a Hands-On Workshop, on "*Voice User Interfaces and Amazon Alexa*" as a part of Building your first skill with Amazon Alexa, organized jointly by **MLH Localhost** and **CCET ACM Student Chapter**, February 6, 2020.