ANSHUL GUPTA

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EDUCATION

B.E.	Chandigarh College of Engineering and Technology,	July 2018 – Present
	Affiliation – Panjab University, Chandigarh, India	Expected Graduation – July 2022

Computer Science and Engineering, CGPA – **9.31/10** (Pursuing)
Related Courses – Data Structures, Algorithms, Artificial Intelligence
Committees: CCET ACM Student Chapter (Chairperson), Website (Student Lead)

COMPUTER SKILLS

Programming: C, C++, Python, R
Databases: MySQL, MongoDB
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

RESEARCH EXPERIENCE

Peptide Utility Sequence Search Application   November 2020 – Ongoing
Advisor: Dr. Ravi Pratap Barnwal (Assistant Professor, Dept. of Biophysics, Panjab University)
- Helped the team in gathering data/PDBs of required proteins through Web Scraping and using data mining techniques.
- Built a Peptide Utility Sequence Search Application to find the sequences having the searched structure using Python Programming.
- Working to find characteristic features of the interface residues, for Helix-Helix interactions.

Understanding Citizen-Government Social Media Engagement during Crisis: Shreds of Evidence from COVID-19 Pandemic *(In Revision after Review)*   July 2020 – February 2021
Advisor: Dr. Ankit Gupta (Assistant Professor, Dept. of CSE, CCET)
- Helped the team in performing the preprocessing of the obtained data.
- Worked in implementing Clustering and OWA Operator and performing a Visual analysis of Results using R programming.

An inquisitive prospect on the shift towards Online Form of Digital Media, before, during, and after the COVID-19 Pandemic: A Technological Analysis *(Submitted Work)*   February 2021 -March 2021
Advisor: Dr. Sunil K. Singh (Professor and HoD, Dept. of CSE, CCET)
- Gathered data from SimilarWeb, formulated them into different datasets as per need.
- Discussed the role of COVID-19 in the surge of Meeting platforms, E-Learning Platforms and also predicted the number of Digital Media users to rise to 796.45 Million by 2031.
- Portrayed the shortcomings of Online Media with the frauds happenings in India.

Impact of Artificial Intelligence and Internet of Things in Modern Times and Hereafter: An Investigative Analysis *(Submitted Work)*   October 2020 – February 2021
Advisor: Dr. Sunil K. Singh (Professor and HoD, Dept. of CSE, CCET)
- Elaborated on the architecture of Artificial Intelligence and Internet of Things.
- 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 *(Accepted and Submitted for Publication to the Proceedings of Springer Book Series, Smart Innovation, Systems and Technologies)*
Advisor: Dr. Ankit Gupta (Assistant Professor, Dept. of CSE, CCET)   July 2020 – December 2020
- Surveyed various websites and research papers to portray the actual Fake News spread.

- Performed Data Extraction by self-implementing a Web Crawler to gain necessary keywords required to fetch the Tweets in order to form a dataset.
- Used my knowledge in the Data Science domain to perform data cleaning, and analysis through visualizations on the obtained dataset and concluded that there was an enormous spread of the said form of news in the month of March, 2020 which was also the initial stages of spread of COVID-19.

TOP PROJECTS

- **WorkOn – Savor the Flavor of Work**   October 2020 – November 2020
  An innovative solution to first reduce the gap between the startups and the funders through our app StartUp India. Secondly, to let people apply for jobs as well, through another platform called Jobify. Further, using regressive data analysis to bring out to the government to make them aware of the need of the present market. Check Here
- **True News Vs Fake News**   May 2020 – June 2020
  To visualize, classify, and predict whether a piece of news is true or fake based on a given dataset. Every day, we see lots of news circulating on social media platforms and so comes the need to classify how can one be sure whether the news is true upon from our existing Machine Learning Models and Deep Learning Algorithms. Check Here
- **Room Rent Prediction**   June 2020 – July 2020
  A basic Deep Learning Module, built from scratch, for prediction of rent of a room developed as a part of Summer Internship Project without making use of any of the libraries like PyTorch, Keras or TensorFlow or frameworks in the open-source world. Check Here
- **Building Secure Rest APIs**   December 2019 – January 2020
  for Login, Sign-Up, Verification, Posts, and Comments, for a social application and tested them using Postman. Check Here

PROFESSIONAL TRAINING AND ATTENDED LECTURES

Developer Certification, Machine Learning with Python, *freecodecamp.org,*   December 2020
Detailed Information Here

Microsoft AI Classroom Series, *Microsoft*,   November 2020
Detailed Information Here

Seminar, on '**Your Research Story: Creating Visualizations to Increase**   September 2020
Research Impact', *WILEY*,
Detailed Information Here

Applied Data Science with Python Specialization, *University of Michigan*   August 2020
Detailed Information Here

Deep Learning Specialization, *deeplearning.ai*   July 2020
Detailed Information Here

Advanced Data Science Specialization, *IBM*   June 2020
Detailed Information Here

Microsoft Technology Associate, in *Introduction to Programming with Python*   February 2020
Detailed Information Here

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.