

# MUSKAAN CHOPRA

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## EDUCATION

<b>Chandigarh College of Engineering and Technology</b> Bachelor of Engineering in Computer Science   CGPA: 9.23/10	Panjab University, Chandigarh Aug. 2019 – June 2023
<b>Kendriya Vidyalaya</b> Intermediate/ Class XII CBSE   AISCCE(%): 91.8/100 (Rank 6)	Chandigarh July. 2017 – March 2019

## WORK EXPERIENCE

<b>Research Intern</b> Department of Biophysics, Panjab University, Chandigarh <ul style="list-style-type: none"><li>Developing Neural Network systems for peptide-protein analysis.</li></ul>	Oct. 2021 – Present
<b>Junior ML Engineer</b> Omdena <ul style="list-style-type: none"><li>Leading the ontology mapping and model pipeline-deployment tasks.</li><li>Contributing in EDA and forecast model construction.</li></ul>	Oct. 2021 – Nov. 2021
<b>Data Science Intern</b> HeyStack <ul style="list-style-type: none"><li>Researched for various emotions that may exist in reviews of a product for classification.</li><li>Scripted Scrapers in Python for Data Gathering and further analyzed it.</li></ul>	Sept. 2021 – Oct. 2021
<b>Machine Learning Intern</b> Scanta, Inc <ul style="list-style-type: none"><li>Morale detection using emotion and sentiment scores.</li><li>Pattern detection from a text using regex</li><li>Emotion Detection using Models like T5-base fine-tuned for Emotion Recognition.</li><li>Worked with Genism, NLPAUG &amp; NLPStanza.</li></ul>	July 2021 – Present
<b>Research Intern</b> Design and Innovation Centre, Panjab University <ul style="list-style-type: none"><li>Working on extensive feature extraction and LSTM-RNN for time series analysis.</li><li>Worked on Predictive Maintenance for early prediction of faults in machine by thermal and Time Series analysis.</li><li>Trained ARIMA Model &amp; LSTM RNN on real time temperature data collected from sensors.</li></ul>	April 2021 – Present
<b>UI Intern</b> Scanta, Inc <ul style="list-style-type: none"><li>Assisted in Developing a Javascript based Front-End with Docker Integration and a React - based UI for Bot Security</li></ul>	Dec 2020 – Feb 2021

## RESEARCH EXPERIENCE

<b>Federated Learning: A new era of ML to Enhance Privacy Protection</b> <i>Communicated Work</i>	
<b>Influence and Establishment of Smart Transport in Smart Cities</b> <i>Communicated Work</i>	
<b>Impact Of AI On Manufacturing Industries And Its Future Prospects</b> <i>Communicated Work</i>	
<b>Assess and Analysis Covid-19 Immunization Process: A Data Science Approach to make India self-reliant and safe</b> <i>Communicated Work</i>	
<b>The perspective of Security and Privacy Models for Fog-enabled IoT in Smart Cities</b> <i>Communicated Work, Secure Edge and Fog Computing Enabled AI for IoT and Smart Cities, Springer</i>	
<b>Deep Learning and Statistical Models Evaluating the trends in the vaccination drive of India</b> <i>Communicated Work, IJHPCN, Inderscience</i>	
<b>Deep Learning in Robotics for strengthening Industry 4.0.: Opportunities, Challenges and Future Directions</b> <i>Accepted, RACCISC 2021</i>	
<b>Predicting Catastrophic events using Machine Learning models for Natural Language Processing</b> <i>Published, Data Mining Approaches for Big Data and Sentiment Analysis in Social Media</i>	

## Role of social media in Covid-19 Pandemic: A literature review

*Published, Data Mining Approaches for Big Data and Sentiment Analysis in Social Media*

## A comparative study of Generative Adversarial Networks for Text-to-Image synthesis

*In Press, International Journal of Software Science and Computational Intelligence*

## An Inquisitive Prospect On The Shift Towards Online Form Of Digital Media in COVID-19 Pandemic

*In Press, Springer: International Conference on Advances in Data Computing, Communication and Security, 2021*

## An Investigative Study Into The Impact Of AI & IoT In Modern Times & Hereafter

*In Press, AAP & CRC Press: Taylor & Francis Group*

## TECHNICAL SKILLS

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**Programming Languages:** C, C++, Python, R

**Data Science & AI:** Python libraries, MS Excel, Google sheets, Power BI, Tableau, Machine Learning, Time Series Analysis, Natural Language Processing

**Web Technologies:** HTML, CSS, Bootstrap, Materialize

**Databases:** MySQL PostgreSQL

**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, PyCharm

## PROJECTS

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**Disaster Prediction** | *Predicting disasters in tweets using NLP in Python.*

[Visit](#)

**Review Scraper** | *Walmart Product Review Scraper using Selenium in Python.*

[Visit](#)

**Temperature Prediction** | *A time-series prediction project based on ARIMA.*

[Visit](#)

**College Grievance System** | *Maintained the Database of the Grievance system of my College in MySQL.*

[Visit](#)

**COVID-19 TRACKER-In Angular CLI** | *A covid-19 tracker made in Angular framework*

[Visit](#)

## POSITIONS OF RESPONSIBILITY

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### 1. Chairperson at CCET ACM Student Chapter

*Scaled community to 150+ members through 25+ events including webinars, competitions and workshop focusing on developing technical and leadership skills. Released 'CASC Magazine' & acted as Lead Editor for it in academic year 2020-21.*

### 2. Student In-charge & Coordinator

*College Website Development Head, E-Cell & Training and Placement Cell.*

### 3. Class Representative

*Gained public speaking, organisation, problem-solving and negotiation skills by proactively coordinating with a class of 75 students and staff.*

## ACHIEVEMENTS

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- Selected for Online Asian Machine Learning School 2021, **ACML**.
- **One of the six** students Selected from India for Inaugural Student Ninja Board (2021-22) for ACM IKDD
- Selected for STA Program 2021 **ICMR - CIBIOD, PGIMER**, Chandigarh.
- Selected for short term course on **Data Analytics and Predictive Technologies** in IIT-BHU.
- **Granted Scholarship** for **ACM MobiSys 2021** mentorship and workshops.
- Successfully completed **Ultimate Milestone** of Google Cloud Ready facilitator Program
- Successfully completed **Microsoft AI Classroom Series**
- **Cleared Round 1 of National Level Hackathon, Game of Codes.**

## EXTRA-CURRICULARS

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- Organized a A Five-day Faculty Development Programme by ATAL AICTE and CCET, Chandigarh on "AI with IoT"
- Organized a A four-day national webinar by technology experts on the role of technology in making India Self Reliant, by CSTT, Indian Ministry of Education.
- Designed various Posts and Brochures for Government Events in Collaboration with our college. **Check Here**
- 2nd Runner-Up In PICTURESQUE, A B-Roll Making Competition by Photography club of College.