

# MUSKAAN CHOPRA

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## EDUCATION

### Chandigarh College of Engineering and Technology

Bachelor of Engineering in Computer Science | CGPA: 9.23/10

Panjab University, Chandigarh

Aug. 2019 – June 2023

### Kendriya Vidyalaya

Intermediate/ Class XII CBSE | AISCCE(%): 91.8/100 (Rank 6)

Chandigarh

July. 2017 – March 2019

## WORK EXPERIENCE

### Research Intern

Oct. 2021 – Present

Department of Biophysics, Panjab University, Chandigarh

- Developing Neural Network systems for peptide-protein analysis.

### Junior ML Engineer

Oct. 2021 – Nov. 2021

Omdena

- Leading the ontology mapping and model pipeline-deployment tasks.
- Contributing in EDA and forecast model construction.

### Data Science Intern

Sept. 2021 – Oct. 2021

HeyStack

- Scripted Scrapers in Python for Data Gathering and further analyzed it.

### Machine Learning Intern

July 2021 – Nov. 2021

Scanta, Inc

- Developed NLP modules for PII & script detection
- Emotion Detection using Models like T5-base fine-tuned for Emotion Recognition.
- Worked with Genism, NLPAUG & NLPStanza.

### Research Intern

April 2021 – Present

Design and Innovation Centre, Panjab University

- Worked on Predictive Maintenance for early prediction of faults in machine by vibrational, thermal and Time Series analysis.
- Trained ARIMA Model & LSTM RNN on real time temperature data collected from sensors.

### UI Intern

Dec 2020 – Feb 2021

Scanta, Inc

- Assisted in Developing a Javascript based Front-End with Docker Integration and a React - based UI for Bot Security

## RESEARCH EXPERIENCE

### Deep Learning and Statistical Models Evaluating the trends in the vaccination drive of India

*Submitted Work*

### Predicting Catastrophic events using Machine Learning models for Natural Language Processing

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

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

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

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

*Accepted, 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

**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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<b>Disaster Prediction</b>   <i>Predicting disasters in tweets using NLP in Python.</i>	<a href="#"><u>Visit</u></a>
<b>Review Scraper</b>   <i>Walmart Product Review Scraper using Selenium in Python.</i>	<a href="#"><u>Visit</u></a>
<b>Temperature Prediction</b>   <i>A time-series prediction project based on ARIMA.</i>	<a href="#"><u>Visit</u></a>
<b>College Grievance System</b>   <i>Maintained the Database of the Grievance system of my College in MySQL.</i>	<a href="#"><u>Visit</u></a>
<b>COVID-19 TRACKER-In Angular CLI</b>   <i>A covid-19 tracker made in Angular framework</i>	<a href="#"><u>Visit</u></a>

## POSITIONS OF RESPONSIBILITY

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- 1. Student Ninja at ACM India** Special Interest Group On **Knowledge Discovery and Data Mining**  
*One of the six students Selected from India for Inaugural Student Ninja Board (2021-22) for ACM IKDD*
- 2. 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** as Membership Chair.*
- 3. Student In-charge & Coordinator**  
*College Website Development Head, E-Cell & Training and Placement Cell.*
- 4. 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**.
- 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.