

# 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

### SDE Intern

Decemeber. 2021 – Present

BlazOp

- Integration Adaptors with various business technologies SaaS products
- Data Engineering Analytics, Graph Analytics

### Research Intern

Oct. 2021 – Present

Department of Biophysics, Panjab University, Chandigarh

- Developing Neural Network systems for peptide-protein analysis.

### Data Science Intern

Sept. 2021 – Oct. 2021

HeyStack

- Researched for various emotions that may exist in reviews of a product for classification.
- Scripted Scrapers in Python for Data Gathering and further analyzed it.

### Machine Learning Intern

July 2021 – Present

Scanta, Inc

- Morale detection using emotion and sentiment scores.
- Pattern detection from a text using regex
- 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

- Working on extensive feature extraction and LSTM-RNN for time series analysis.
- Worked on Predictive Maintenance for early prediction of faults in machine by 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

### Influence and Establishment of Smart Transport in Smart Cities

Accepted, in proceedings of CEUR-WS.org, SysCom 2021

### Impact Of AI On Manufacturing Industries And Its Future Prospects

Accepted, in proceedings of CEUR-WS.org, SysCom 2021

### Assess and Analysis Covid-19 Immunization Process: A Data Science Approach to make India self-reliant and safe

Accepted, in proceedings of CEUR-WS.org, SysCom 2021

### The perspective of Security and Privacy Models for Fog-enabled IoT in Smart Cities

Accepted, Secure Edge and Fog Computing Enabled AI for IoT and Smart Cities, Springer

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

Communicated Work

### Deep Learning in Robotics for strengthening Industry 4.0.: Opportunities, Challenges and Future Directions

Accepted, RACCISC 2021

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

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

### 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, Metabase

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

**Databases:** MySQL PostgreSQL, GraphDB

**Developer Tools:** Integration Adaptors, 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.