

# MUSKAAN CHOPRA

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## EDUCATION

### Chandigarh College of Engineering and Technology

Panjab University, Chandigarh

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

Aug. 2019 – June 2023

- College Website Development Head, Executive Member Training and Placement Cell.
- **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. Delivered and hosted various workshops on ML, Designing.
- Class Representative- Gained **public speaking, organisation, problem-solving and negotiation skills** by proactively coordinating with a class of 75 students and staff.

### Kendriya Vidyalaya

Chandigarh

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

July. 2017 – March 2019

## WORK EXPERIENCE

### SDE Intern

Dec. 2021 – Jan. 2022

BlazOp

- Built MongoDB Integration Adaptor for CRUD Operations

### 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 – Dec. 2021

Scanta, Inc

- Worked on 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

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

### UI Intern

Dec 2020 – Feb 2021

Scanta, Inc

- Assisted in Developing the Front-End with Docker Integration UI for Bot Security

## RESEARCH EXPERIENCE

### Analysis & Prognosis of Sustainable Development Goals using Big Data-based Approach during COVID-19 Pandemic

*Communicated Work, Sustainable Technology and Entrepreneurship, Elsevier*

### Federated Learning: A new era of ML to Enhance Privacy Protection

*Communicated Work, Cognitive and Intelligent Systems for IoT and Cyber-Physical Systems, 2021*

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

*Published, CEUR-WS.org, SysCom 2021*

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

*Published, CEUR-WS.org, SysCom 2021*

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

*Published, 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*

**Evaluating the sustainable COVID-19 vaccination framework of India using Recurrent Neural Networks**  
*Communicated Work, Wireless Personal Communications, Springer*

**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 study on detection of COVID from chest X-rays using Convolutional neural network**  
*In Press, Volume 14, Issue 1, Article 19, International Journal of Software Science and Computational Intelligence*

**A comparative study of Generative Adversarial Networks for Text-to-Image synthesis**  
*In Press, Volume 14, Issue 1, Article 14, International Journal of Software Science and Computational Intelligence*

**An Inquisitive Prospect On The Shift Towards Online Media in COVID-19 Pandemic**  
*In Press, International Conference on Advances in Data Computing, Communication and Security, 2021*  
*doi- 10.1007/978-981-16-8403-6\_20*

**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, MongoDB

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

**Certifications:** Deep Learning and Neural Networks, AI for Everyone, Basics of Angular, Python, Google cloud training, Frontend Fundamentals. [Visit](#)

## PROJECTS

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**To Do App** | Flask To Do App with MongoDB. [Visit](#)

**Job Recommender** | Streamlit Job Recommender App with MongoDB. [Visit](#)

**Space-Dashboard** | Space Company Data visualization dashboard in Tableau. [Visit](#)

**Covid-Dashboard** | Covid-19 Data visualization dashboard in Tableau. [Visit](#)

**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](#)

**COVID-19 TRACKER-In Angular CLI** | A covid-19 tracker made in Angular framework [Visit](#)

## ACHIEVEMENTS

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- Postman Student Expert **verify here**
- Secured rank 4 out of 760 teams in Future Hack- Quizotica by IIT Delhi
- Secured second position in Unicode Machine Learning Summer Course 2021 project evaluation. **Check Here**
- 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 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**

## EXTRA-CURRICULARS

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- Feature Editor @ **XRDS, ACM**
- Community Mentor @ **Yocket**
- 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.
- Delivered **Seminar**, on **"AI, ML and IoT in National Language"**, as a part of A **four-day national webinar** on the role of technology in making India Self Reliant, by **CSTT, Indian Ministry of Education**.