

# MUSKAAN CHOPRA

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## EDUCATION

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### Chandigarh College of Engineering and Technology

Panjab University, Chandigarh

Bachelor of Engineering in Computer Science | CGPA: 9.06/10

Aug. 2019 – June 2023

- College Website Development Head (2021-22), Executive Member Training and Placement Cell (2020-23).
- **Chairperson (2021-22) 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.

## WORK EXPERIENCE

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### Research Analyst Intern- Operations

Jan. 2023 – June 2023

CopperpodIP

- Working on analysing and evaluating data to improve business operations, supply chains, pricing models, and marketing in patent industry.

### SDE Intern

Dec. 2021 – Jan. 2022

BlazOp

- Built MongoDB Integration Adaptor for CRUD Operations

### 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 – April 2022

Design and Innovation Centre, Panjab University

- Worked on DeepFake Detection using Deep Learning.
- Worked on Predictive Maintenance for early prediction of faults in machine by thermal and Time Series analysis using ARIMA Model & LSTM RNN.

### UI Intern

Dec 2020 – Feb 2021

Scanta, Inc

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

## RESEARCH EXPERIENCE

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### Self-supervised representation learning and Domain Adaptation

*Working with [EISLAB](#), [Machine Learning](#), [Luleå University of Technology](#), Sweden and [Prof. Varun Gupta](#) on Self-supervised learning & Domain Adaptation. The proposed network mainly focused on building an efficient classification and segmentation architecture for Diabetic Retinopathy Detection, PotHole Detection and Remotely Sensed Satellite Image classification.*

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

*[Published](#), [Sustainable Technology and Entrepreneurship](#), Elsevier*

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

*[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

*[Published](#), Volume 14, Issue 1, Article 14, [International Journal of Software Science and Computational Intelligence](#)*

*doi- 10.4018/IJSSCI.300364*

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

*Published*, International Conference on Advances in Data Computing, Communication and Security, 2021  
doi- 10.1007/978-981-16-8403-6\_20

## 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

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

## TECHNICAL SKILLS

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

**ML & DL:** sci-kit learn, PyTorch, Lightly, FastAi, NLTK, SpaCy, Gensim, hugging-face, NLPStanza, NLPAug, BERT, GloVe, ProfanityFilter, PDF Operations, RAKE, regex, ARIMA

**Data Science & Analytics:** MS Excel, Google sheets, Power BI, Tableau, Google Data Studio

**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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**Covid19 Prediction** | Covid-19 predictions from radiological examinations using FastAi. [Visit](#)

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

**Disaster Prediction** | Predicting disasters in tweets using NLP in Python. [Visit](#)

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

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

**Covid-Dashboard** | Covid-19 Data visualization dashboard in Tableau. [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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- Selected for **Google Research Week 2023** by Google, India.
- **Winner** Innovative Product Design, organized by Institute Innovation Cell(IIC), 2022.
- Selected for **D & I track scholarship** to attend CODS - COMAD 2023 .
- **Finalist (Nationals)** Smart India Hackathon '22 .
- **Invited** to the fully ACM-sponsored XRDS meetup in **New York City**
- **Selected in top 50 candidates** for ACM India Summer School on Data Science, IIT Gandhinagar.
- **Linux Foundation Training (LiFT) Scholar** 2022, recipient of Women in Open Source scholarship .
- **Winner** Internal Smart India Hackathon, organized by Institute Innovation Cell(IIC), 2022.
- **Winner** in Future Hacks- Business Analytics (ML) Event, IIT Delhi & received prize worth INR 40,000
- Secured second position in Unicode Machine Learning Summer Course 2021 project evaluation. [Check Here](#)
- Selected for Online Asian Machine Learning School 2021 & 2022 **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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- SME @ **Chegg**.
- Postman Student Expert [verify here](#)
- Ambassador @ **Women Tech Makers, Google**.
- Volunteer @ **Computer Vision Talks, Montréal, Québec**
- Feature Editor @ **XRDS, ACM**
- Graphic Designing and Animations. [Check Here](#)
- 2nd Runner-Up In PICTURESQUE, A B-Roll Making Competition by Photography club of College.