

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 | AISSCE(%): 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.

Data Science Intern

Sept. 2021 – Nov. 2021

HeyStack

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

Machine Learning Intern

July 2021 – Jan. 2022

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 – Sept. 2021

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

Machine Learning based Statistical Models predicting the future trends in the COVID-19 vaccination drive in 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

Accepted, 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

Review Scraper <i>Walmart Product Review Scraper using Selenium in Python.</i>	<u>Visit</u>
Temperature Prediction <i>A time-series prediction project based on ARIMA.</i>	<u>Visit</u>
College Grievance System <i>Maintained the Database of the Grievance system of my College in MySQL.</i>	<u>Visit</u>
COVID-19 TRACKER-In Angular CLI <i>A covid-19 tracker made in Angular framework</i>	<u>Visit</u>

POSITIONS OF RESPONSIBILITY

- 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.*

PRESENTATIONS

- **Lecture** followed by **Hands-on Session** On Roadmap to **ML Algorithms** organized by CCET ACM Student Chapter, Chandigarh.
- **Lecture** on An Undergrad perspective on **Computer Science Life** organized by CCET ACM Student Chapter, Chandigarh.
- 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**.

ACHIEVEMENTS

- 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 **Digital Intelligence Virtual Case Experience** by PwC
- Successfully completed **Microsoft AI Classroom Series**
- **Cleared Round 1 of National Level Hackathon, Game of Codes.**

EXTRA-CURRICULARS

- 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.