

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 | AISCCE(%): 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

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

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

- 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

- 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**.