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
Kendriya Vidyalaya	Chandigarh
Intermediate/ Class XII CBSE | AISSCE(%): 91.8/100 (Rank 6)	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.

Junior ML Engineer — Oct. 2021 – Nov. 2021

Omdena
- Leading the ontology mapping and model pipeline-deployment tasks.
- Contributing in EDA and forecast model construction.

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

The perspective of Security and Privacy Models for Fog-enabled IoT in Smart Cities
Communicated Work, 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
In Press, Data Mining Approaches for Big Data and Sentiment Analysis in Social Media

Role of social media in Covid-19 Pandemic: A literature review
In Press, 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

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

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

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** *as Membership Chair.*

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.*

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 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

- 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.