

GOPAL MENGI

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Education

Chandigarh College of Engineering and Technology

Bachelor of Engineering in Computer Science — CGPA: 9.54/10

Nov. 2020 – June 2024

Panjab University, Chandigarh

Shri Guru Gobind Singh Collegiate Public School

Class XII CBSE — AISCCE(%): 82.00/100

July. 2018 – March 2020

sector - 26, Chandigarh

Relevant Coursework

- Database Management
- Data Science
- Web Development
- Data Analytics
- Machine Learning
- Data Scrapping
- Deep Learning

Research Experience

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

Published, CEUR-WS.org, SysCom 2021

Automated Machine Learning (AutoML): The Future of Computational Intelligence

Accepted, International Conference on Cyber Security, Privacy and Networking (ICSPN),2022

Work Experience/Training

Research Intern

June 2022 – Present

Indraprastha Institute of Information Technology, Delhi (IIIT D)

- Data Gathering from Twitter using Tweepy API.
- Modelling using BERT based transformers.
- Designing Transfer learning and Neural Network based Deep Learning models, like TCN,LSTM for NLP classification.
- Analysis for better visualization using Plotly.
- Topic Modelling.
- Change Point Analysis.

Research Intern

November 2021 – April 2022

Design and Innovation Centre, Panjab University

- Working 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 on real time temperature data collected from sensors.

Data Gathering Intern

November 2021 - February 2022

Insights2TechInfo

- Data Collection from various web resources using web scrappers and python and beautiful soup and selenium libraries.
- Automating Data Scrapping and Publish on the website.

Editor

August 2022 - Present

Newsletter, CCET, PU

- Compiling and editing the articles for the official newsletter of Chandigarh College of Engineering and Technology.
- Writing Articles for the official newsletter of Chandigarh College of Engineering and Technology.

Technical Skills

Programming Languages: C, C++, Python, JavaScript

Data Science AI: Python libraries, MS Excel, Google Sheets, Machine Learning, Deep Learning, Natural Language Processing, Timeseries Forecasting

Web Technologies: HTML, CSS, Bootstrap

Databases: MySQL, PhpMyAdmin, SQLite, MongoDB

Developer Tools: VS Code, Git, Kaggle, Google Cloud Platform, Jupyter Notebook, Google Colab, Tableau, Google Data Studio

Technologies/Frameworks: GitHub, WordPress

Projects

Migraine Classification | *Python, Machine Learning*

July 2022

- * This is a project used to classify different types of Migraine's using classification models in machine learning, namely RandomForest Classifier, Decision Tree Classifier, Support Vector Classifier, KNeighborsClassifier, GaussianNB, LogisticRegression, XGBClassifier, based on different parameters like Age, Duration, Frequency, Location, Character, Intensity, Nausea, Vomit, Phonophobia, Photophobia, Visual, Sensory, Dysphasia, Dysarthria, Vertigo, Tinnitus, Hypoacusis, Diplopia, Defect, Ataxia, Conscience, Paresthesia. [Visit](#)

Youtube Comments Sentiment Analysis | *Python, Machine Learning, NLP*

July 2022

- * This is project to analyse the comments, the text in the comments and the emoji's also to understand the emotion behind a particular comment. [Visit](#)

COVID-19 Data Analysis International and India | *Tableau*

January 2022

- * Analysed the data of more than 2 lakh entries using Tableau a data visualisation tool to create a dashboard and data story for better understanding of the COVID-19 pandemic in the world as well as in India. [Visit](#)

Flight Data Analysis | *Tableau*

January 2022

- * Analysed the data of more than 88 thousand entries. [Visit](#)

Big Mart Sales Prediction Using Machine Learning | *Python*

December 2021

- * Developed using Python and Machine Learning Models and used to analyse the sales of the Big Mart and the attribute on which the sales depend.

Job Recommender System | *Python, Streamlit*

January 2022

- * Developed using Python and Machine Learning Models with help of Natural Language Processing and analysing the given Resume by identifying the keywords and predicting the best suited job in the specified country. [Visit](#)

Twitter Disaster Prediction using Machine Learning and NLP | *Python*

November 2021

- * Developed using Python and Machine Learning Models with help of Natural Language Processing and analysing the sentiment of the tweet and further processing the authenticity of the disaster tweet.

Feasomed | *C++, Object-Oriented Programming*

June 2021

- * Cloud Based Supply Chain System
- * Developed using C++.
- * Helps in better reach of medical supplies in the rural areas.

Positions of Responsibilities

Student In-charge & Coordinator

September 2021 – Present

College Website Development Team, Training and Placement Cell, Student helpdesk E-Cell CCET

Editorial Head at CCET ACM - W Student Chapter

October 2021 – August

Executive Member at CCET ACM

April 2021 – Present

- Website Reviser of CCET's ACM Student Chapter.
- Website Reviser of CCET's ACM - W Student Chapter.

Presentations

- **Lecture and Hands-on Session** On the Hour of Code - **Learn basics of Python, Computer Science and Programming** organized by CCET ACM Student Chapter.
- Organised **Technaire** A two day quiz event organised by CCET ACM Student Chapter in Association with CCET ACM-W Student Chapter. Where collegiate students from all over India participated.

Achievements

- Finalist, Smart India Hackathon, Asia's Largest Hackathon organised by Ministry of Education's Innovation Cell (MIC).
- Winner of Future Hack, a Machine Learning based hackathon by DMS, IIT Delhi.
- Winner of Internal Smart India Hackathon, by CCET, PU.
- Stood 4th out of 760 teams in a quiz organised by DMS, IIT Delhi.
- 3 Star Coder at CodeChef.
- 5 Star Coder in C++ at Hackerrank.
- 3 Star Coder in Python at Hackerrank.
- Selected as a Contributor in GirlScript Winter of Contribution 2021.
- Participated in Coding Rajin organized by CCET ACM Student Chapter.
- Participated in Innovation Contest conducted by CCET's IIC.
- Participated in Code Combat of GeekEnd 4.0 by NIT Surat.