Nimit Gupta

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EDUCATION

Thapar Institute of Engineering and Technology

Patiala, India

Bachelor of Engineering - Computer Science and Engineering; GPA: 7.81

2020 - 2024

Courses: DataBase Management Systems, Secure Coding, Data Structures and Algorithms, Operating Systems, Machine Learning

S.D Public School

Chandigarh, India

Grade XII; Percentage: 89 Grade X; Percentage: 75

2019 - 2020 2017 - 2018

SKILLS SUMMARY

• Languages: Python, SQL, Solidity, Unix

Django(Beginner), Flask, Pandas, Numpy, FastAPI, Nltk Frameworks:

MySQL, Git/Github, GetBootStrap, PowerBI • Tools:

• Platforms: Linux, Windows, Oracle

• Soft Skills: Leadership, Critical Thinking, Responsible, Teamwork, Flexibility, Consistency

Position of Responsibility

Mudra Cultural Society

Patiala, India

Management Head

2021 - 2022

o Organized various inter-India events with over 200+ participants:

o Responsible for overall team management and event management.:

Paryawaran Society

Patiala, India

Executive Member

2022 - 2023

- o Organized various nature conserving events on campus and outside.:
- o Pitched sponsors for the events with tactical plans to promote the events.:

Projects

Wine Quality Prediction: Developed the machine learning model to predict wine quality using Random Forest Classifier. Used confusion matrix, accuracy, precision for validating model performance.

TECH STACK: Python, Numpy, Pandas, plotlib.

• Railway Management System: Designed database to tracks train timings, routes, seats, prices; records passengers, ticket types for efficient railway management.

TECH STACK: SQL.

• Coffee Sales Dashboard: Worked with Microsoft Excel to build a dynamic interactive coffee sales dashboard. Data is first gathered and then transformed and then pivot charts and pivot tables are used.

TECH STACK: Ms-Excel.

• MyToDo: Created a webpage using Python and Flask. For Html and javascript used a tool called getbootstrap. Then connected the database (sqlite) using flask-sqlAlchemy. Designed a basic structure of a webpage to list down all the upcomping tasks in day-to-day life an one place and one can also perform CRUD operation. TECH STACK: Python, Flask, SQL

Sentiment Analysis: Collected a dataset featuring some of the social media text posts along with their sentiment (0,1,2). I crafted a NLP pipeline with the precision to accurately classify these social media texts, where I used BERT the pretrained model and used nltk to pre-process the data and achived the accuracy of 80per-cent using SVC as the classifier TECH STACK: Python, Numpy, Pandas, nltk, BERT, SVC

Publications

- Conference Paper: Robust and Secure Dual Watermarking for improved protection and preservation of sensitive healthcare data(Accepted in 8th International CVIP- 2023, IIT JAMMU): Detect image tampering, recovers using self-embedding dual watermarking, embedded using NSST, BMEMD, MSVD for enhanced imperceptibility, robustness. Publishing in Springer in late 2023
- Research paper: Enhancing robustness and security of medical images through composite watermarking method: Under Review in Soft Computing. A combination of NSST, HD, and SVD transforms, improving the robustness and security of the grayscale watermarked image embedding into multiple cover images.

CERTIFICATES

- Certificate of Internship with SmartKnowner for Cyber Security
- CyberSecurity Essentials by Cisco
- Python Certificate HackerRank

ACHIEVEMENTS

- Solved 150+ programming questions among various coding platforms and won several badges.
- Honoured with best athlete as well as Gold medalist of the year at TIET.
- Zonal Football player.