MANNAT KAUR BHATIA

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MY PROFILE

My interest lies in the areas of Software Development, Data Science, Machine Learning, and Product Management. Currently, I am an undergraduate student of BE Electronics and Computer Engineering at the Thapar Institute of Engineering and Technology and I am expected to graduate in August 2024.I believe that my unique combination of leadership, analytical skills and technical skills, combined with my passion and understanding of human behaviour, will enable me to be a strong contributor to the organizations I will be a part of.

EDUCATION

- **Bachelors of Electronics and Computer Engineering, Thapar Institute of Engineering and Technology, India**

  Core Modules: *Python Programming, Data Structures and Algorithms (DSA), Object-Oriented Programming (OOPs), Data Science, Artificial Intelligence-NLP, Deep Learning, Machine Learning (ML), Cloud Computing, Database Management Systems (DBMS), Computer and Communication Networks (CCN), Signals and Systems, Embedded Systems, Information and Communication Theory (ICT).*

  Expected Grade: Honors Degree (7.68 CGPA till 3rd Year)

- **Class 12th (CBSE), Stepping Stones Senior Secondary School, Chandigarh, India**

  Grade: 90.8%

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python
- **Data Science Tools:** Pandas, NumPy, Scikit-learn, NLTK, Matplotlib
- **Web Programming Technologies:** HTML, CSS, Bootstrap
- **Platform:** Windows
- **Tools:** Arduino, MATLAB, SQL, Tableau, MS Office

POSITIONS OF RESPONSIBILITY

Student Placement Representative at Thapar

- As a Student Placement Representative, my job is to facilitate the placement process, providing guidance to students, and maintain accurate records. I also coordinate with faculty and develop healthy working relationships with job hiring team to increase placement opportunities.

Content Head at Thapar Food Festival

- Overseeing TFF's content-related tasks, including developing ideas, contacting sponsors, requesting approval from authorities, and maintaining postings and articles on its social media accounts.

Finance Secretary at Paryawaran Welfare Society

- Overseeing the PWS society's finances; most of my work entails keeping track of accounts and paying payments.

Core Member of Entrepreneurship Development Cell

- My primary responsibility at EDC is to mentor my fellow mates who are interested in entrepreneurship. Additionally, I also served as the primary content writer for the society, and my work was included in its annual magazine, "Bizfanatics."

Group Representative of ENC Batch

- I have maintained my position of Group Representative for three consecutive years now and will be continuing to do so for the remaining tenure as well.

Member of National Service Society (NSS)

- Volunteering for humanitarian work. Till date I've organized regular donation camps (blood, food, clothes etc.) to help the poor around the campus.

Member of Student Consultive Committee

- My primary responsibility is to serve as a bridge between the administration of the institute and the students in my batch. I let the appropriate authorities' figures know about the pupils' comments and problems.

CERTIFICATIONS AND AWARDS

- Understanding the Software Development Life Cycle (SDLC) – Udemy
- Data Science Foundations – Great Learning Academy
- Mastering Data Structures & Algorithms using C and C++ - Udemy
- Natural Language Processing: NLP with Transformers in Python - Udemy
- Web Developer Bootcamp (Pursuing) - Udemy
- Learn Python Programming Master Class – Udemy
- Data Science 101 – IBM SkillsBuild
- Awarded gold medal for academic excellence in class 10^{th}

PROJECTS

1. **Image Sentiment Analysis (Capstone project)**
   - The project focuses on "Image Sentiment Analysis" to understand sentiments expressed through images on social media. It utilizes machine learning and deep learning techniques for automatic text summarization and sentiment prediction, aiming to generate image descriptions for visual entities in the images.

2. **Plagiarism Detector**
   - This project works on one kind of word embedding technique, i.e., TF-IDF (Term Frequency- Inverse Document Frequency). The model evaluates and compares the input text files using cosine-similarity function and outputs the plagiarized document with % of plagiarism between the files.

3. **Face Recognition System**
   - This project includes concepts of Computer Vision, used to detect faces accurately either on live camera or even live video.

4. **Movie Review**
   - This is a basic project made using basics of Data Science and Machine Learning which suggests movie/ tv show to watch next, based on your previous watch.

5. **Portfolio Website**
   - This is my portfolio website. It is built with HTML, CSS and JS showcases what I am up to currently with my projects and my skills. The website is deployed on GitHub.

6. **Engineering Design Project (Robocar)**
   - This project is mostly centred on the fundamental ideas of electronics, such as the construction of circuits, transmitters, and receivers, as well as the principles of Arduino programming. Additionally, it teaches the ideas behind sensors like infrared (IR) and ultrasonic. My role involved coding and putting IR and ultrasonic sensors to use.