

# Daanish Sharma

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## EDUCATION

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- Thapar Institute Of Engineering And Technology, Patiala** | Bachelor of Science in Computer Science August,2023
- GPA: 8.17/10
- Delhi Public School, Patiala** | Physics,Chemistry,Mathematics May, 2019
- MARKS: 85%
  - *Top 4.3 percentile all india in Joint Engineering Entrance Exam,2019*

## EXPERIENCE

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**Undergraduate Fellow Intern** May,2021 - October,2021

Thapar Institute Of Engineering And Technology | Patiala, India

### Key Accomplishments:

- Developed image classification models for plant disease identification for maize and cassava crops.
- Developed deep learning models for deep-fake video detection.
- Developed an IoT enabled precision irrigation system.Based on weather and soil perimeters it recommends daily irrigation needs for wheat and rice crops.

Contact : Dr.Pardeep Bhatia - <https://pardeepbhatia.com/>

## PROJECTS

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### Game Playing AI Agents [LINK](#)

Implemented game theory algorithms on games designed in pygame(Python) . Which include-

1. Sliding Puzzle Solver (A\* Graph Search )
2. Minesweeper (Propositional Logic Based Reasoning)
3. Tic-Tac-Toe (Min-Max Algorithm)
4. Nim (Q-learning )

### Piano Music Generation (NLP Project) [LINK](#)

Implemented RNN model that trains on piano notes data from Irish songs predicts next notes given a starting note, thus generating new tunes.

### Line Follower Buggy

Implemented a proportional-integral-derivative control(PID) based line follower robot car.

## SKILLS

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**Programming Languages:** C/C++, Python , and Javascript

**Databases** - MySQL

**Web** - HTML, CSS, Django and Flask

**Operating Systems** - Ubuntu, and Debian

## COURSES TAKEN

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Database Management Systems, Operating Systems, Data Structure And Algorithms, Discrete Mathematics, Computer Networks, Probability And Statistics and Machine Learning