

# Prakhar Gupta

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Github Profile: <https://github.com/prak12g>

Linkedin Profile: <https://www.linkedin.com/in/prakhar-gupta-43830a73/>

Digital CV: <https://prakhar-digital-cv.streamlit.app/>

## EDUCATION

- **Mahindra University** Hyderabad, India  
*Bachelor of Technology - Computer Science (2024)* *Sept 2020 - Present*
  - **Merit Scholarship:** 50% scholarship of 1 lakh INR. Awarded to top 11 students - Jan'21

*Key Courses Undertaken/Ongoing: Machine Learning, Database Management Systems, Design and Analysis of Algorithms, Object Oriented Programming, Operating Systems, Micro-processors and Interfacing, Data Structures, Big Data Analytics, Computational Biology, Mathematical Modelling in Image Processing*

## CERTIFICATIONS

- **Professional Certificate Program in Blockchain by IIT Kanpur (On-going)** : Python, Solidity, JavaScript, HTML, CSS

## SKILLS SUMMARY

- **Languages:** Python, C++, JAVA, HTML, MySQL
- **Frameworks/Libraries:** Scikit, OpenCV, Streamlit, Pandas, Keras, Matplotlib
- **Platforms:** Linux, Windows, Arduino
- **Soft Skills:** Leadership, Public Speaking, Problem Solving, Teamwork

## WORK EXPERIENCE

- **Roboverse - Robotics Club** Mahindra University, Hyderabad  
*Club head - (Co-Founder)* *Aug 2022 - Present*
  - **Lakshmanrekha (Nov'22):** Organised the Line Following Robot Competition for 1st - 3rd Year students
  - **Workshop Orientation:** Organised and conducted 3 sessions on 'Introduction to Robotics' and its programming. Furthermore, conducted sessions on different types of sensors and the science behind them, along with the application and uses
- **Deepfield Robotics** Germany (Remote)  
*Robotics Researcher (Created a robotic arm which aids in killing weeds using laser)* *Aug 2021 - Aug 2022*
  - **Matlab:** Created the Control Loop in simulink
  - **OpenCv:** Developed a vision-based targeting system for laser weeding for mobile robots using a visual servoing approach for continuous laser weeding
  - **Electronics:** Created a test-bed combining circuits and hardware; coordinated with team members and communicated with the client in Germany
- **Neutral Fuels** Dubai, U.A.E  
*Biodiesel Researcher Intern* *July 2017*
  - **Experiment Conducted:** Used 'Anion Exchanged Resin' to help reduce the 'Free Fatty Acid' (FFA%) in bio-diesel and presented my findings to the company executives

## PROJECTS

- **Hindi Subtitles Generation:** Generated a SRT file for a Hindi video clip using ML(Nov'22) - <https://github.com/prak12g/Hindi-Subtitles-Generation-Using-WhisperAI.git>
- **Data Extraction and Text Analysis:** Extracted textual data articles from the given URL and performed text analysis to compute variables. Used articles from Hindustan Times as the dataset(Aug'22) - <https://github.com/prak12g/Data-Extraction-and-Textual-Analysis.git>
- **Stock Market Prediction:** Used LSTM machine learning model to predict Mahindra's (MM) stock price. Tech: TensorFlow, Python, Keras, Pandas (April '22) - <https://github.com/prak12g/Stock-Market-Prediction-Using-ML.git>
- **RoboCon 2022:** Created 2 robots to play the game Lagori for the Robotics Competition held by IIT Delhi. Tech : Raspberry pi, Arduino (Feb - July '22) - <https://drive.google.com/drive/folders/16xGjY5oiOvtP1F6ZtGaT-ZZJrx2BYRa5>

## HONORS AND AWARDS

- Qualified for Robocon 2022 Stage-3 and Participated in the National Round held in IIT-Delhi - July'22
- Babson Collaborative Student Challenge - One of top 10 teams all over the world as Finalist - May'21
- Winner of Hacktober Fest - Oct'20