Prakhar Gupta

Email: prakhargupta.2001@gmail.com
Mobile: +91-6397757794
Address: B-16,New Agra,Agra,UP

Github Profile: https://github.com/prak12g
Linkedin Profile: https://www.linkedin.com/in/prakhar-gupta-43830a73/

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

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 - Dec 2022*
  - **Lakshmanrekha (Nov'22)**: Organised the Line Following Robot Competition for 1st - 3rd Year students
  - **Workhop 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

- **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
- **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
- **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
- **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

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 Hackoctober Fest - Oct'20