MAYANK THAKUR

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Experience

Well Developer Intern at NullClass | *React.Js*   **June 01,2022 – September 01,2022 (Remote)**
- Developed a Stackoverflow clone for the organization to post queries.
- Added functionality of location in profile and facility to add comments on questions and answers posted.
- **Tech Stack**: React.Js, Express.Js, Node.Js, MongoDB.

Education

Indian Institute of Technology Mandi   **August 2023 – Present**
Master of Technology by Research Robotics; CGPI-8.14/10   *Mandi, Himachal Pradesh, India*

National Institute of Technology Hamirpur   **July 2019 – June 2023**
Bachelor of Technology in Computer Science;   *Hamirpur, Himachal Pradesh, India*

Minerva Sr. Sec. School Ghumarwin   **April 2018 – March 2019**
Class 12th(Science);   *Bilaspur, Himachal Pradesh, India*

Minerva Sr. Sec. School Ghumarwin   **April 2016 – March 2017**
Class 10th;   *Bilaspur, Himachal Pradesh, India*

Projects

On the fly Change Detection using Drones | *Pytorch, Pytorch Lightening, Python*   **April 2024 – Present**
Research Project | *Supervisor: Dr. Radhe Shyam Sharma*
- Developed a Spectral Attention Based Network to Detect Changes in satellite and street level images taken at different temporal instances.
- Spectral Attention Module improves the overall performance of model.
- Currently working on the deployment of model on onboard system for on the fly change detection using drones.

Data Collection, Preprocessing and Human Identification using Neural Networks | *Python*   **Feb 2024–May 2024**
- The aim of this project was to create a state of the art dataset for GAIT Analysis.
- Worked on Data Preprocessing and Augmentation during the project.
- Also Validated the new Dataset on State of the art GAIT Recognition Models.

Classy Pics | *Python, Pytorch*   **April 2024(1 week)**
- Developed a Diffusion based text to image generation deep learning model.
- Training Dataset consisted on Alphanumeric and 10 animal classes.

Technical Skills

Languages: Java, Python, C++, JavaScript, SQL.
Technologies/Frameworks: Robot Operating System, Pytorch, React.js, Node.js, GitHub, MongoDB, MySQL.
Libraries: NumPy, Pandas, Scikit-learn.
Course Subjects:Robot Programming Modelling and Simulation, Deep Learning, Pattern Recognition, Vision and Learning based Robotic Control, Operating System, OOPs, Data Structures, Database Management, Computer Organization and Architecture.

Interests

Programming, Reading, Listening to Music.

Achievements

- Received 1st Prize in Classy Pics problem in AI Hackathon 3.0 organized by Yamaha Motor Solutions India at IIT Mandi.