SIDDHANT VERMA

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EDUCATION

Bachelor of Technology [B.Tech] [Computer Science & Engineering] **2020 – 2024**

- UPES, Dehradun [8.46/10 CGPA] [Till 7th Semester].
- Major: Artificial Intelligence & Machine Learning (AIML), Minor: Big Data, Exploratory: International Business (School of Business).

FUNCTIONAL AREAS

- Artificial Intelligence
- Data Analysis
- Machine Learning
- Data Visualization
- Big Data

SKILLS

- IT Constructs: Data Structures and Algorithms, DBMS, Computer Networks
- Coding Languages: C/C++, Python, SQL
- Developer Tools: Github, VSCode
- Soft Skills: Leadership, Team Management, Building Customer Relationships

INTERNSHIPS

IBM, India

- **Project Developer Intern [AI & ML]** **June 2023 – August 2023**
  - Led the development of an autonomous robotic assembly system using the DDPG reinforcement learning algorithm.
  - Applied cutting-edge technologies including Python, Gym, Stable Baselines3, and Panda-Gym to create a precise and adaptable robotic assembler.
  - Collaborated with a cross-functional team to integrate AI technologies seamlessly into the robotic assembly system.

Care for Air, India

- **Volunteer Intern [Social Media & Content Team]** **June 2021 – July 2021**
  - Played a pivotal role in enhancing Care for Air's social media visibility, actively creating and disseminating engaging content across platforms.
  - Formulated creative engagement strategies that increased audience understanding and participation in environmental initiatives.
  - Actively engaged with diverse community groups, encouraging their involvement in air quality improvement initiatives.

PROJECTS

Precision Fish Farming using ML **January 2023 – May 2023**

- We aimed to develop a fish freshness detection system using SVM and CNN, which can accurately detect fish freshness based on fish eye images. We achieved an accuracy of almost 93% with CNN model and an accuracy of 87.5% with SVM model.
- **Tech Stack:** CNN, SVM, Data Cleaning, Data Visualization

Handwritten Text Recognition using TensorFlow **August 2022 – December 2022**

- The Deep Learning-based workflow simplifies scanning and converting handwritten text to digital text, achieving almost 97% accuracy on the IAM dataset and nearly 70% accuracy for custom handwritten text.
- **Tech Stack:** CNN, RNN, CTC, TensorFlow

CERTIFICATIONS

- Successfully accomplished online soft-skills certification in Leading Teams in May 2021 through Coursera.
- Successfully accomplished online soft-skills certification in Communication Strategies for a Virtual Age in Dec 2020 through Coursera.

OTHERS

Extra-Curricular Activities

- Worked as a Core Member of Events Committee in UPES ACM Student Chapter for the session 2021-2022.
- Served as a Class Representative (CR) for the session 2021-2022.
- Certificate of Merit in CSI Hackathon 5.0 at UPES in the year 2021.
- Worked as a Group Leader during Social Internship for the Career Services Department, UPES for the year 2021.

Hobbies

- Travelling and exploring new places/culture.
- Football enthusiast.