Kunal Sharma

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EDUCATION

NIT Warangal — Warangal, Telangana
Bachelor of Technology in Electrical and Electronics Engineering, CGPA: 6.0/10 — 2017 - 2021

MDS Senior Secondary School — Udaipur Rajasthan
XII CBSE, 92.4% — 2016

Alok Senior Secondary School — Udaipur, Rajasthan
X CBSE, CGPA: 9.6 — 2014

SKILLS

Technical Skills: C++, Python, MATLAB, PowerBI, Arduino
Relative coursework: Data Structures and Algorithms, Machine Learning, Data Analytics

EXPERIENCE

Aufenbach — Warangal, Telangana
Internship — Oct 2019 - Apr 2020

- Developed a project on Human Activity Recognition using RNNs:
  System through which user's physical activities can be tracked using sensors. Virtual Reality to experience the computer simulation. Worked on data acquisition from sensors and conversion to useful format.

PROJECTS

- **Celebrity Face Recognition:**
  Model is build using **SVM Classifier** and deployed on AWS EC2 instance using **Python Flask server** that serves requests. There's also a **UI website** that allows the user to drag and drop the image to be classified. Achieved an **accuracy of 82%.**
- **Bengaluru Real Estate Price Prediction:**
  Model is build using **Linear Regression** and deployed on AWS EC2 instance using **Python Flask server** that serves requests. There's also a **UI website** that allows the user to enter home square ft area, bedrooms etc. and get the predicted price. Achieved an **accuracy of 86%.**
- **Web Scraping using python BeautifulSoup:**
  Web scraping with python and BeautifulSoup Library for 3 different websites.
- **Handwritten Digit Recognition:**
  Implemented using **CNNs** in python. Used **MNIST** database for training and testing. This was then compared with the other model which didn't use CNNs.
- **Voice Controlled Bot:**
  Created a voice-controlled bot using **L293D motor driver** module and **Bluetooth HC-05** module interfaced with Arduino. Used Google voice typing for voice recognition. Bot is controlled via smartphone app
- **Gesture Controlled Bot:**
  Made a gesture-controlled bot using **MPU60050** module and transmitter-receiver modules interfaced with Arduino.

POSITIONS OF RESPONSIBILITY

- **Assistive Technology Team, Innovation Garage (IG):**
  Working on technology solutions for Visually Impaired. Current Projects: Teaching geometry to VI kids, Navigation system for VI people.
- **Electrical Engineering Association, NIT Warangal:**
  Served in Event Conduction & Coordination and Design teams
- **E-Cell & E-Summit, NIT Warangal:**
  Served in Design and Event Conduction & Coordination teams
- **Technozion, NIT Warangal:**
  Managed a techno-marketing event named MAD MARKETING at the annual technical fest of NIT Warangal. The event was the only management themed event in the whole fest. It witnessed a participation of 400+ students.

ACHIEVEMENT AND HONOURS

- **Joint Entrance Examination (Advanced):** AIR: 7447 (GEN)
- **Joint Entrance Examination (Main):** AIR: 6107 (GEN)
- **Science Olympiad Foundation:** School Topper

VOLUNTEERING EXPERIENCE

- **World Space Week, NIT Warangal (In association with WSWA and ISRO SDSC, SHAR):**
  Event Coordination and Public Relations. The event received a footfall of 15k in 2 days. ~80% of them were school children.