

Anshuman Padhi

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EXPERIENCE

Central University of Rajasthan — *Research Intern* (June 2019 - July 2019)

- Devised an algorithm to remove biases like man to sports and women to nurse; trained a gender classifier on word vectors; experimented on Hindi text.
- Presented in ACAI 2019 China (<https://dl.acm.org/doi/abs/10.1145/3377713.3377792>)

Delhi Police — *Robotics Intern* (January 2019 - June 2019)

- Understood and made a prototype surveillance UAV (hexacopter); calibrated and tested all the components; designed flight plans; now being used in surveillance with computer vision
 - Worked with PID controller and flightcontrol.
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PROJECTS

Drowsiness Detection System — *Computer Vision*

- Made a real time drowsiness detection system using CV (landmark detection).
- Used python with imutils, dlib, openCV, sklearn, pandas and numpy.
- Shows an F1 score of more than 76% on Real Life Drowsy Driver dataset.

Gender Classifier — *NLP and Machine Learning*

- Trained a gender classifier on word vectors generated from Hindi corpus.
- Used python with nltk, gensim, sklearn, pandas, pytorch and numpy.
- The classifier helps non-native speakers to identify genders of words.

FarmAid — *Crop Warehousing solution*

- Retrieved and explored satellite data; trained a crop yield predictor (93% accuracy).
 - Used python with sklearn, matplotlib, pandas, tensorflow and numpy.
 - Won Smart India Hackathon (SIH 2020) with this.
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SKILLS

Data Structures and Algorithms (C++ & python)

Machine Learning using Python

Python libraries: Sklearn, Pandas, NumPy

Python API's: Keras, Tensorflow (beginner)

Managing and Organizing

POSITION OF RESPONSIBILITY

- **Team leader** of the Central Crew team that **won the Smart India Hackathon (SIH 2020)**.
 - **Secretary, Rotaract Club of New Delhi Next** under Rotary Club of New Delhi, RID-3011.
 - **Vice-President, International Organization of Software Developers**, student chapter (IOSD MSIT)
 - **Organized Internship fair at NSUT**; assisted **Resumod** in **selection interviews** among other tasks.
 - **Organized HackMSIT**, a **hackathon** at MSIT; co-headed multiple departments.
 - **Organized HackMSIT 2.0**, a **hackathon** at MSIT; lead organizer.
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VOLUNTEER WORK

- Actively mentoring juniors in introductory C++, Python, ML and Data Science.
 - Member of Rotaract Club of New Delhi Next since July 2018 to present. Headed a many projects; volunteered for many others.
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EDUCATION

Maharaja Surajmal Institute of Technology

B. Tech., ECE (2017-2021)

CGPA: 7.958 (6 semesters)

VVDAV Public School, New Delhi

Twelfth Board (2017) Percentage: 84.8%

Tenth (2015) CGPA: 10