

# ANKUR BHATIA

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## EDUCATION

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**UIET, Panjab University**

Bachelor of Engineering, Electronics and Communications

*Aug 2017 - Present*

CGPA: 9.23/10

## RESEARCH INTERESTS AND SKILLS

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**Research Interests**

Deep Learning, Robotics, Computer Vision

**Computer Languages**

C/C++, Python.

**Technologies & Frameworks**

Tensorflow, Keras, OpenCV, ROS, Git, Linux, Microcontrollers.

## PROFESSIONAL EXPERIENCE

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**Technology Intern**

*The Ideaz Factory - Chandigarh*

*April 2020 - Present*

- Fetching, Cleaning and Filtering Data (from Viator, Google Api's, etc.) and generating Analysis.

**Winter Research Intern**

*Robita Lab, IIT Allahabad; Advisors: Prof. G.C. Nandi*

*December 2019 - February 2020*

- Developed Human Emotion Recognition System for Nao humanoid robot. Multi-modal classification and context recognition using deep learning on real time text, audio and video.
- Includes Research and Prototyping of various Fusion Models, Feature Extraction of Audio, Text and Video(Context-Background and Facial) [LINK](#)

**Summer Research Intern - IIT Delhi**

*Advisors: Dr. Aakanksha Chowdhery (Google Brain) and Prof. Brejesh Lall*

*June 2019 - August 2019*

- Calibration of cheap MQ135 (for CO2) and DSM501A (for PM2.5) sensor with an accurate ground truth sensor for easy air quality monitoring.
- Time Series forecasting on real time data with a fully functional pipeline of detection of the nearest CPCB station from the user, and providing predictions for Personal Air Quality Monitoring. [LINK](#)

## PROJECT EXPERIENCE

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**Reddit Flair Prediction and EDA**

*May 2020*

- Flair Prediction from subreddit r/india posts with full analysis on feature selection and model selection.
- Developed a web based flask application and an api to get predictions using the post url. [LINK](#)

**Eyantra Robotics Competition - Autonomous Bot - IIT Bombay** *October 2018 - Mar 2019*

- Developed an Autonomous bot that can pick, place and stack objects and follow through the shortest paths to complete the task using Raspberry Pi, Arduino and Image Processing.
- Developed I2C for communication and FSM, PID algorithm for accurate control of robot. [LINK](#)

**Vision Based Pedestrian Detection using Thermal Camera, UIET,PU** *Dec 2018 - Mar 2019*

- Developed Fast-RCNN model using transfer learning on our own collected dataset using FLIR Infrared Camera in different weather conditions, people, clothes, time, etc. [LINK](#)

## SCHOLARSHIPS AND MENTORING EXPERIENCE

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CIFAR DLRL Summer School 2020 Grant, Oxford ML Summer School 2020 Grant, Mentor in Open-Source (LearnITGirl, Student-Code-In), Secure AI Scholarship Udacity, Instructor Deep Learning Course at Programing Club UIET, Founder PClub Summer of Code 2020, Co-Chair and Speaker at Software Freedom Day, Dell Campus Ambassador(Top 5 in India), Boys Hostel Secretary (2019)