

Prerna Khanna

CONTACT INFORMATION	New Delhi INDIA	Mobile: +91 9711451453 E-mail: prerna.khanna97@gmail.com Website: https://sites.google.com/view/prerna-khanna/
RESEARCH INTERESTS	Mobile Computing, IoT, Signal Processing, Robotics, Machine Learning	
EDUCATION	Guru Gobind Singh Indraprastha University New Delhi, India B.Tech. in Instrumentation and Control Engineering	2016–2020 <i>CGPA 8.98</i>
	Loreto Convent School New Delhi, India 12 th C.B.S.E, 92% 10 th C.B.S.E, CGPA: 10	2016 2014
EXPERIENCE	Research Intern Indraprastha Institute of Information Technology, Delhi, India Survival analysis and staging system for Multiple Myeloma <i>Advised by: Dr. Anubha Gupta</i>	Jun. 2019—Sep. 2019
	Research Intern Celestini Project India, Marconi Society, IIT Delhi, India Developed Air Cognizer : Predicting Air Quality with Images <i>Led by: Dr. Aakanksha Chowdhery</i> (Google AI) and <i>Dr. Brejesh Lall</i> (IIT Delhi)	May. 2018—Oct. 2018
	Researcher and Developer Endolite India Pvt. Ltd Development of Upper Extremity Prosthetic Limbs	Jul. 2017—Present
	Trainee Minda Corporation, Noida, India	Dec. 2016—Jan 2017
LEADERSHIP EXPERIENCE	<ul style="list-style-type: none">Conducting inter-college workshops to teach programming concepts.Event Coordinator at Fervour, Technovation: Technical Project Exhibition at College.Chapter Representative BVP IEEE student branch.	Aug. 2018—Present 2018 2017 – 2018
AWARDS AND ACHIEVEMENTS	<ul style="list-style-type: none">Air Cognizer featured at Google I/O 19 in a session called: "What's new in Android Machine Learning".Presented a demo and featured in the keynote at the TensorFlow Dev Summit 2019, Sunnyvale, CA.Awarded the Paul Baran Young Scholar's Celestini Prize India.Winner of Project Exhibition Evotech 2.0.	2019 2019 2018 2018
TECHNICAL PROJECTS	<ul style="list-style-type: none">Survival Analysis of Multiple Myeloma for Indian cohort.Self Healing Mesh Network for Autonomous Drones."Mocking Bot" Audio processing to extract notes from music and detect the instrument"Air Cognizer" Predicting Air Quality with mobile camera images."Moonshine" Breath analyzer.	2019 2019 2019 2018 2018

- **"Vision"** IoT based SONAR System. 2018
- **"Haze removal"** in images using Dark Channel Prior. 2017
- **"Upper Extremity Prosthetic Limb"** Circuit and Software using Myo signals. 2017 - Ongoing
- **"Obstacle Avoider"** using edge detection in Python. 2017
- **"WieAssist"** A women's safety Android application. 2017
- **"CNC Machine"** using Arduino and stepper motors. 2016

SKILLS AND TOOLS

Languages: JAVA, Python, R, MATLAB, LATEX, Embedded C
Technologies: Arduino, Raspberry Pi, Android, Machine Learning, Computer Vision