Pulkit Mahajan (2019ucs0073)

भारतीय प्रौद्योगिकी
संस्थान जम्मू
**INDIAN INSTITUTE OF
TECHNOLOGY JAMMU**
विद्यायनं सर्वोत्तम प्रधानम्

ACADEMIC QUALIFICATIONS

Year	Degree/Examination	Board/University	%/CGPA
2023	B. Tech Computer Science and Engineering	IIT Jammu	9.53
2019	Class XII	MGN Public School	95.2%
2017	Class X	MGN Public School	10.00

ACADEMIC ACHIEVEMENTS AND SKILLS

Olympiads	▪ Recipient of **NTSE Scholarship** 2016-17 awarded to top 1000 students among 9 lakh candidates. ▪ Recipient of **KVPY Fellowship** 2018-19
Inter IIT Tech Meet 9.0	▪ Silver Medallist and Team Leader, TPF and Kaching's Case Study Competition.

Skills	▪ **Languages**: C, C++ 17, Python3, SML
	▪ **Data Science**: Deep Learning and Artificial Neural Networks, Convolutional Neural Networks, Computer Vision, Bayesian Neural Networks, Recurrent Neural Networks and related Time-Series Prediction, Markov-Chain Monte-Carlo Methods in Machine Learning, Machine Learning,
	▪ **Misc.**: HTML5, CSS3, JavaScript
	▪ **Frameworks**: Tensorflow2.0, Pytorch, Keras, Django
	▪ Tools:
	  ▪ MATLAB, Octave
	  ▪ OS: Ubuntu, Kali, Windows
	  ▪ Databases: MongoDB
	  ▪ VCS: Git, GitHub

JEE	• JEE Advanced: All India Rank: 5180 • JEE Mains: All India Rank: 3747

PROJECTS

Virtual Education Platform	▪ Virtual Education Platform for the college, to conduct online classes and examinations ▪ Integrate Zoom and Google Classroom using Zoom API and Google Classroom API
Drone Detection and Anti Drone System	▪ (ongoing) Handling Computer Vision and Image Processing part of the project. ▪ Involves Detection, Identification and Tracking of UAV drones using RGB Cameras, Depth Cameras and Radar.
IEEE ICIP Spark Challenge	▪ Detecting and classifying space satellites and space debris using RGB and Depth Images. ▪ IEEE ICIP Spark Challenge
Transparent Object Semantic Segmentation	▪ Detecting and segmenting highly reflective or transparent objects. ▪ RGB-D Based Highly Reflective and Transparent Objects Semantic Segmentation
MailGen	▪ A command-line-based application for a friend's business start-up to automate the process of logging into Gmail and sending emails to costumers ▪ APIs used -Google Drive API, Google Sheets API, SendGrid API
TPF's Case Study	▪ Lead the team in Inter IIT Tech Meet 9.0, Silver Medal in the particular event. ▪ Proposed a solution to automate the process of cross-platform messaging and Pay-outs.
TicTacToe	▪ A Terminal based single player and two player game

INTERNSHIPS AND PAPERS

Research Intern University of New South Wales	▪ (ongoing)Research intern at UNSW ▪ Working on Bayesian Neural Networks to produce comparable results on benchmark datasets using proposed Parallel Tempering Markov-Chain Monte-Carlo methods along with RNNs and LSTMs. ▪ GitHub Link for Project
Verzeo	▪ Machine Learning in Python Internship with Verzeo in collaboration with Microsoft. ▪ Project 1: Data Analysis ▪ Project 2: Price Prediction for second hand cars.

CERTIFICATIONS:

MOOCs	▪ **Neural Networks and Deep Learning (**Certificate**)** ▪ **Improving Deep Neural Networks: Hyperparameter tuning, Regularization, and Optimization. (Certificate)** ▪ **Computer Vision- Object Detection with OpenCV and Python (Certificate)** ▪ **Structuring Machine Learning Projects (Certificate)** ▪ **Data Analysis with Python (Certificate)** ▪ **Machine Learning in Python(Internship)(Course certificate)** ▪ **HTML7 (Certificate) and CSS3 (Certificate)**

POSITIONS OF RESPONSIBILITY

ARTIHC	▪ Social Media and Content Management Head, Artihc, IIT Jammu
TnP Cell	▪ Student Representative, Training and Placement Cell, IIT Jammu
Inter IIT Tech Meet 9.0	▪ Team Leader, Case Study Event
Inter IIT Cultural Meet 4.0	▪ Represented IIT Jammu's contingent in Still Life Sketching and Costume Design Event
Student Mentorship Program	▪ Mentor to three students from freshmen year under Student Mentorship Program