Harshit **Malik**

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Education

Indian Institute of Technology Ropar	*Ropar, India*
B.Tech. in Computer Science and Engineering, Final Year Student	*Since July 2017*

Current C.G.P.A: **9.69/10**   Institute Rank: **1**   6 Times Institute Merit Scholarship Awardee

Central Board of Secondary Education	*Kendriya Vidyalaya, Delhi, India*

Intermediate: **96.6%**   Matriculation: **10/10**

Skills and Courses

Languages	C, C++, Python, Java(Intermediate), JavaScript(ReactJS), Dart(for Flutter), HTML5
skills	Django, Flask, Flutter, ReactJS, GraphQL, PostGreSQL, Qt, AWS, Scikit-Learn, PyTorch, Tensorflow, NumPy, Pandas, Matplotlib, Android Studio, Git, Linux (Ubuntu)
CS Courses	Data Structures and Algorithms, Databases, Operating Systems, Computer Networks, Theory of Computation, Software Engineering, Digital Logic Design, Computer Architecture, Programming Paradigms, Machine Learning, Computer Vision
Math Courses	Advance Calculus, Differential Equations, Linear Algebra, Discrete Mathematics, Probability, Optimization Techniques

Work Experience

● Software Development Intern at D.E Shaw   *Summer Intern 2020*
Team - IT and Life Sciences

GraphQL service for LiveDesign
- Implemented GraphQL service to replace existing REST API calls in the LiveDesign and explored under-fetching, over-fetching, and dynamic, multiple and nested requests in single query using Graphene, Apollo Client, Relay and GraphQL-Java

● Project Intern at IIT Hyderabad   *Summer Intern 2019*
Guide - Dr. Vineeth N Balasubramanian

Grad-CAM++ : Improved Visual Explanations for Deep Convolutional Networks
- Grad-CAM++ provides **visual explanations of CNN model predictions**, in terms of object localization and explaining occurrences of multiple object. Corrected mathematical flaw in the **original paper** (WACV 2018) and improved performance on occurrences of multiple object instances.

● Project Intern at IIT Ropar   *Summer Intern 2018*
Guide - Dr. Abhinav Dhall

Speech aware video labeling software [Link]
- Developed a video player that automatically transcripts the media file with audio data along with time stamp.

Interactive selfie and memory based authentication app [Link]
- Developed an android application that captures a selfie, make them lively & interactive and use them for memory based authentication.
- Usage : can interact with selfie by focusing on a specific face , add filters , animation and emoticons on the basis of expressions of people.

Other Projects

- Characterizing job hirability using personality and behaviour [Link]
- RISC-V Instruction Set Architecture (ISA) simulator [Link]
- Mobile application for dementia patients: Cognia [Link]
- Institute faculty leave management portal [Link]
- Web application for online group chatting with anonymity: Quarantine-Talks [Link]

Position of Responsibility

Presently	**Head Placement Coordinator,**	Career Development and Corporate Relations Centre, IIT Ropar
2019-20	**UG Internship Coordinator,**	Career Development and Corporate Relations Centre, IIT Ropar
Oct 2019	**Core Team Member,**	Zeitgeist'19, Annual Cultural Festival of IIT Ropar.
2017-19	**Coordinator & Team Leader,**	Coding Club, Student AI Community, Enactus IIT Ropar

Miscellaneous

Academic	● Part of **Youth Exchange Program'19 to China** under **Ministry of youth affairs and sports.**
	● Felicitated by contemporary **MHRD minister of Govt. of India, Prakash Javedkar** during the event Gun Gaurav Samman Samaroh - 2017 **for getting the highest marks in KVS Delhi region** in AISSCE (class 12).
	● Received an appreciation letter from contemporary **MHRD minister of Govt. of India, Smriti Zubin Irani** for excellent performance in AISSCE (class 10) in 2015.
JEE Rank	Secured a rank of **1641** (Out of **1.5 million candidates**) in Joint Entrance Exam, 2017.
Sports	● Participated in Basketball event of **43rd KVS National Sports Meet - 2012** and my team secured **third** position.
	● Participated in in Basketball event of **52nd Inter IIT Sports Meet -2017** held at IIT Madras.