

# DHRUV GUPTA

ACADEMIC PROFILE									
Degree/Certificate		Institution					Percentage/CGPA		Year
IDD		Computer Science and Engineering IIT (BHU), Varanasi					9.72		2024
Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII	Sem IX	Sem X
9.73	9.74	9.85	9.78	9.61	9.63	-	-	-	-
CBSE (XII)		The Century School, Gharaunda, Haryana					96.00		2019
CBSE (X)		MASD Public School, Panipat, Haryana					95.00		2017
SKILLS									
<ul style="list-style-type: none"><li>• <b>Programming Languages and Tools</b> - C, C++, Python, HTML, CSS</li><li>• <b>Tools and Frameworks</b> - Django, Spring Boot, NumPy, Pandas, Tensorflow, Keras, Git, MySQL.</li><li>• <b>Areas of Interest</b> - Competitive Programming, Data Structures and Algorithms, Deep Learning, Web Development.</li></ul>									
INTERNSHIP/TRAINING									
<b>Research Intern   Spark Internship Program, IIT Roorkee</b>								May'21 - July'21	
<ul style="list-style-type: none"><li>• Implemented various ML classification techniques like - KNN, K-means from scratch for Handwritten Digit Recognition.</li><li>• Improved K-means clustering via a hybrid of KNN and K-Means and initialization methods - K-means++ and Splitting.</li><li>• Implemented various regression techniques - Decision trees, Random Forest, Lasso and Ridge for prediction.</li><li>• Explored about Generative Adversarial Networks (GANs) and their various applications in generative modelling.</li></ul>									
PROJECTS									
<b>Stock Price Predictor (LSTM Based)</b>								May'22 - July'22	
<ul style="list-style-type: none"><li>• Developed a Django based web application with LSTM based stock prices prediction model.</li><li>• Previous stock price of a company are used to forecast its price in the future.</li><li>• Company's historical stock prices are retrieved using the Alpha Vantage API.</li></ul>									
<b>Image Denoising Model using Conditional GANS (cGANs)</b>								Jan'22 - March'22	
<ul style="list-style-type: none"><li>• Built an Image Denoising model using cGANs trained on Fashion MNIST dataset corrupted by Gaussian noise.</li><li>• Improved the Discriminator by using Patch GAN architecture and Generator with a modification of U-NET architecture.</li><li>• Improved the accuracy of the model using a combination of L1 loss and Binary Cross-Entropy Loss.</li></ul>									
<b>Hospital Administration System</b>								Sep'21 - Nov'21	
<ul style="list-style-type: none"><li>• Developed a web-application for Hospital administration using Spring Boot framework and MVC architecture.</li><li>• Designed the database schema in MySQL and implemented user-authentication based on Spring Security.</li><li>• Implemented transaction through third-party payment gateway and token based email verification utilities.</li></ul>									
POSITION OF RESPONSIBILITY									
<ul style="list-style-type: none"><li>• <b>Event Manager and Problem setter at NP-Compete'21 and Codestart'21</b> - Coding Events with 1000+ participants.</li><li>• <b>Event Manager and Problem setter at NP-Compete'21 and Codestart'21</b> - Coding Events with 1000+ participants.</li><li>• <b>Marketing Coordinator at Kashiyaatra'20</b> - Annual socio-cultural festival of IIT (BHU), Varanasi.</li></ul>									
HONOURS AND ACHIEVEMENTS									
<ul style="list-style-type: none"><li>• <b>Candidate Master on Codeforces</b> - Max Rating: 1992.</li><li>• <b>5-star coder on CodeChef</b> - Max Rating: 2026.</li><li>• <b>Indian Rank 72 in ACM-ICPC Regional Contest</b> (Pune - Gwalior region), 2021.</li><li>• <b>Google Kickstart - Global Rank 442, 498, 572</b> in Round B, C and A, 2022 respectively among 10000+ candidates.</li><li>• <b>Google CodeJam - Qualified for round 2 in 2021 and 2022</b> among more than 35,000 candidates.</li><li>• <b>Secured Global Ranks 95, 149, 249.</b> in Codeforces Round #804, #721, #759.</li><li>• <b>Secured Global Rank 110 (Division - 1)</b> in August Long Challenge 2020.</li><li>• <b>Secured Global Rank 22 and 60</b> in September Cook-Off 2020 and April Cook-Off 2021 respectively.</li><li>• <b>Secured AIR 849 in JEE Advanced, 2019 and AIR 1258 in JEE Main</b> among more than 1.5 million candidates.</li><li>• <b>KVPY Scholar with AIR 671</b> - Offered fellowship by Dept. of Science and Tech, GOI and IISc Bangalore.</li></ul>									
EXTRA-CURRICULAR ACTIVITIES									
<ul style="list-style-type: none"><li>• <b>Problem Creator, HackerRank</b> - Made 20+ Data Structures and Algorithms based Interview problems.</li><li>• <b>Informative Content Creator</b> - for Club of Programmers (COPS) IIT (BHU), Varanasi YouTube channel.</li></ul>									

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