

# SANYAM JAIN

ACADEMIC PROFILE									
Degree/Certificate		Institution					Percentage/CGPA		Year
IDD		Mathematical Sciences IIT (BHU), Varanasi					9.40		2027
Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII	Sem IX	Sem X
8.96	9.35	9.65	9.60	9.52	9.33	-	-	-	-
CISCE (XII)		The Modern School					92.40		2021
CISCE (X)		The Modern School					97.20		2019
SKILLS									
<ul style="list-style-type: none"><li>• <b>Languages:</b> C++, SQL, Python</li><li>• <b>Web Development:</b> JavaScript (ES6+), Node.js, Express.js, PostgreSQL, RESTful APIs, Bootstrap 5</li><li>• <b>ML Libraries:</b> TensorFlow, Keras, NumPy, Pandas, Scikit-learn</li></ul>									
PROJECTS									
<b>Multi-User Book Notes Management System with AI Integration</b>									
<i>Full-stack web app with authentication, database, API integration, and agentic AI workflows</i>									
<ul style="list-style-type: none"><li>• Designed and developed a full-stack multi-user web app using <b>Node.js</b>, <b>Express.js</b>, <b>PostgreSQL</b>, and <b>EJS</b>, following a modular MVC architecture</li><li>• Implemented secure <b>authentication</b> with bcrypt and session-based login, enabling user-level data isolation and <b>RESTful CRUD APIs</b> for books and notes</li><li>• Integrated <b>Google Gemini AI</b> for multi-step workflows including <b>personalized recommendations</b>, <b>genre analysis</b>, and <b>book Q&amp;A</b></li><li>• Combined <b>OpenLibrary API</b> with AI-driven enhancements for dynamic metadata retrieval and intelligent content suggestions</li></ul>									
<b>Image Compression using PCA and Autoencoders</b>									
<i>Undergraduate project</i>									
<ul style="list-style-type: none"><li>• Implemented and compared image compression using <b>PCA</b>, <b>simple neural networks</b>, and <b>CNN-based autoencoders</b></li><li>• Evaluated methods based on <b>compression ratio</b>, <b>MSE</b>, and <b>reconstruction quality</b>, analyzing trade-offs in latent dimensionality</li><li>• Used <b>Python</b>, <b>TensorFlow</b>, <b>OpenCV</b>, and <b>Matplotlib</b> for model development, testing, and visualization</li></ul>									
POSITION OF RESPONSIBILITY									
<b>Joint Secretary – Events Team, MACS Society</b>									
<ul style="list-style-type: none"><li>• Led the organization of <b>Numerator vs Denominator</b>, the flagship <b>intra-departmental mathematics competition</b>, ensuring smooth conduct and active participation</li><li>• Directed <b>MACS Sports Week</b>, managing <b>logistics, scheduling, and team coordination</b> to deliver a successful multi-event sports initiative</li><li>• <b>Core Team Member</b> for <b>CodeMat</b> – a globally accessible, <b>rated contest</b> hosted on <b>CodeChef</b>; contributed to problem setting, testing, and coordination with CodeChef's technical team</li></ul>									
<b>Public Relations Executive – FMC Weekend 2024</b>									
<ul style="list-style-type: none"><li>• Collaborated with the PR team to invite VIPs and chief guests for fest events</li><li>• Served as primary point of contact, ensuring smooth communication and coordination throughout the event</li></ul>									
HONOURS AND ACHIEVEMENTS									
<b>Competitive Programming</b>									
<ul style="list-style-type: none"><li>• <b>Expert</b> on <a href="#">Codeforces</a> (handle: <b>buri buri zaemon21</b>), Max Rating: <i>1713</i>, <b>Global Ranks</b> – 417 (Round 1006)</li><li>• <b>5-Star</b> on <a href="#">CodeChef</a> (handle: <b>sanyamjain353</b>), Max Rating: <i>2004</i>, <b>Global Ranks</b> – 60 (Starter 188), 63 (Starter 165)</li><li>• <b>4 Kyu</b> on <a href="#">AtCoder</a> (handle: <b>surgebinder</b>), Max Rating: <i>1236</i>, <b>Global Rank 818</b> in ABC 398</li></ul>									
<b>Competitions</b>									
<ul style="list-style-type: none"><li>• Secured <b>3rd position</b> in the Case Study competition at <b>National Students' Space Challenge (NSSC)</b>, organized by <i>IIT Kharagpur</i></li></ul>									

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