Eshaan Ashish Jaiswal

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Research Interests

Machine Learning, Deep Learning, Computer Vision and Artificial Intelligence, Large Language Models, Algorithmic and Theoretical Computer Science, Applied Probability and Mathematics; secondary interests in Computer Networks and Systems.

Education

Indian Institute of Technology Gandhinagar (IITGN)   *2024 – 2028*
B.Tech in Computer Science and Engineering
Cumulative Performance Index (CPI): 7.95 / 10

St. Paul School and Junior College, Nagpur   *2023 – 2024*
Class XII — Physics, Chemistry, Mathematics   Score: 87.67%

St. Xavier's High School, Nagpur   *2021 – 2022*
Class X   Score: 95.4%

Academic Distinctions & Entrance Examinations

- **JEE Advanced Rank: 3737**, among approximately 180,000 shortlisted candidates nationwide (competitive examination for admission to Indian Institutes of Technology).
- **JEE Main: 99.314 Percentile**, among over one million test-takers across India.
- **MHT-CET: 99.89 Percentile**.
- **BITSAT: 314 / 390**.
- Qualified Zonal Informatics Olympiad (ZIO), the first stage of the International Olympiad in Informatics (IOI) selection process in India; appeared for the Indian National Olympiad in Informatics (INOI) conducted by IARCS.
- Grade 10/10 in ES112 — Computing, grade 10/10 in BS192 - Undergraduate Science Laboratory, and grade 9/10 in ES113 - Data-Centric Computing at IIT Gandhinagar.

Relevant Coursework

Computer Science and Data (Completed):
Computing, Data-Centric Computing, Probability Statistics and Data Visualization, Digital Systems
Mathematics (Completed):
Calculus of Single and Several Variables, Linear Algebra, Ordinary Differential Equations, Discrete Mathematics
Engineering and Systems (Completed):
Principles and Applications of Electrical Engineering, Engineering Graphics, Materials for the Future
Humanities and Writing (Completed):
Introduction to Writing I & II, World Civilizations and Cultures, Introduction to Philosophy, General Education I & II
Currently Pursuing:
Data Structures and Algorithms II, Computer Organization and Architecture, Theory of Computing, Numerical Methods, Machine Learning, Databases

Research Experience

Computer Vision, Imaging and Graphics (CVIG) Lab, IIT Gandhinagar   *Jan 2026 – Ongoing*
Supervisor: Prof. Shanmuganathan Raman

- Working on early-stage research involving first-order GAN-based models for animation and visual generation.

Industrial Experience

Delivery Data Scientist Intern — Turing   *May 2025 – July 2025*

- Participated in human-in-the-loop evaluation of large language model outputs for STEM-focused tasks, with emphasis on mathematics.

- Compared responses generated by different LLM variants including ChatGPT, Google Gemini, and Penguin Agentic AI.
- Reviewed step-by-step reasoning, logical consistency, and correctness of AI-generated solutions under strict evaluation guidelines.
- Created and refined STEM (primarily mathematics) questions and prompts to assess reasoning quality.
- Gained exposure to industrial dataset curation pipelines, evaluation criteria, and corporate practices for outsourced data generation.
- Work involved minimal scripting and no large-scale coding; focus was on analytical judgment and qualitative evaluation.

Technical Competitions and Other Exposure

Inter-IIT Tech Meet 14.0 — Radio Resource Management PS (Arista Networks)
- Participated in Inter-IIT Tech Meet, a prestigious nationwide technical competition involving teams from all 23 Indian Institutes of Technology, including IIT Bombay and IIT Delhi.
- Worked on exploratory configuration and experimentation with OpenWRT-based wireless systems.
- Studied Wi-Fi Radio Resource Management (RRM) concepts, radio signal behavior, and client-aware wireless design.
- Participated in research discussions on potential applications of convolutional neural networks for interpreting wireless telemetry.
- Gained hands-on experience with routers and Linux-based networking environments.
- Collaborated in an 8-member team on a high-preparation, open-ended technical problem; prepared presentations and technical documentation, and learned from solution approaches and system designs presented by other IIT teams.

Selected Projects

Solar Car Project — ES118: Materials for the Future, IIT Gandhinagar
- Designed and built a solar-powered vehicle integrating mechanical, electrical, and material components.
- Created CAD models of gears and mechanical parts using Autodesk Inventor for 3D printing.

Focus Table and Mini Golf — ES115: Design, Innovation and Prototyping, IIT Gandhinagar
- Prototyped an ergonomic L-shaped desk with adjustable lighting and tilt mechanisms.
- Applied laser cutting and silicone molding techniques for techno-aesthetic fabrication.

Positions of Responsibility

Design Coordinator — TEDxIITGandhinagar *2025 – Present*
- Leading design operations for TEDxIITGandhinagar 2026.
- Leading TEDxIITGandhinagar 2026 as part of a 13-member organizing committee, coordinating operations across multiple departments with a total team size of 80+ members.
- Coordinating design workflows and mentoring 6 junior members on creative and technical tools.

Junior Executive — Technical Team, EII IIT Gandhinagar *2024 – 2025*
- Learned Web Development and worked on webpages from scratch.
- Maintained and updated the team webpage using HTML, CSS, and Git.

Skills

Programming: Python, C, C++, HTML, CSS, Verilog
ML / Data: TensorFlow, PyTorch, NumPy, Pandas, Matplotlib
Systems / Tools: Linux, Git, OpenWRT, Arduino, Autodesk Inventor
Design Tools: Adobe Premiere Pro, Adobe Illustrator, Adobe LightRoom Classic, Stripo

Extracurricular Activities

Music: Fingerstyle Guitar, Piano, and Bass; solo performance during the FP100 Foundation Program; active member of the Sargam Music Club at IIT Gandhinagar.

Photography: Team member for the Inter-IIT Cultural Meet 8.0 held at IIT Kanpur; active member of 16Pixels, the photography club of IIT Gandhinagar; experience in wildlife and event photography, including handling mirrorless camera systems and professional photography workflows.