

# Achinta Hazra

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I am a Computer Science undergraduate with hands-on experience in Machine Learning, Full-Stack Web Development, and Generative AI. Skilled in developing, deploying scalable systems integrating AI models with web technologies using React, Node.js, Docker. I have a strong foundation in DSA, OOP, DBMS, and System Design, enabling me to tackle complex problems and deliver impactful Solutions.

## SKILLS

Programming Language: Python, JavaScript, TypeScript, Java, C++  
Machine Learning: Scikit-learn, NumPy, Pandas, Matplotlib, Data Preprocessing, Model Evaluation, Feature Engineering  
Deep Learning: TensorFlow, PyTorch, Keras, Neural Networks, CNNs, Model Optimization  
Generative AI: LLMs, Fine-Tuning, RAG Systems, Prompt Engineering  
Web Technology: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Redux, Node.js, Express.js, REST APIs, JWT/OAuth, WebSocket  
Databases: MongoDB, MySQL, PostgreSQL  
Cloud & DevOps: Docker, AWS (S3, EC2), CI/CD, GitHub Actions, N8N

## PROJECTS

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| <b>Causal Inference Engine for Market Attribution</b><br><a href="#">🔗</a>    | Developed a Causal Inference Engine for market attribution using Propensity Score Matching (PSM) and a T-Learner for Uplift Modelling <ul style="list-style-type: none"><li>The PSM Estimated Effect (0.004176) successfully reduced the error by over 50% compared to the Naive Effect (0.001172), closely approximating the True Effect (0.006632) from the randomized A/B data</li><li>Final deployment provides decision support for optimal resource allocation using an uplift threshold of &gt;0.01</li></ul> |
| <b>DevCollab — Full-Stack Collaborative Platform</b><br><a href="#">🔗</a>     | Built a real-time collaborative development platform using Next.js, Node.js, 2FA, and MongoDB <ul style="list-style-type: none"><li>Integrated code editing, chat, and video conferencing features</li><li>Secured with JWT/OAuth, tree file structure, code compiler</li></ul>  |
| <b>Customer Churn &amp; Heart Disease Prediction Models</b> <a href="#">🔗</a> | Built Random Forest and Logistic Regression models for churn prediction and heart disease prediction <ul style="list-style-type: none"><li>Churn prediction model achieved 80.34% accuracy with 19 features</li><li>Heart disease prediction model achieved 87% accuracy with 16 features</li></ul>  |
| <b>E-Commerce Platform with Optimized Rendering</b><br><a href="#">🔗</a>      | Built a high-performance platform using Next.js 14, TypeScript, and MongoDB <ul style="list-style-type: none"><li>Implemented SSG, ISR, and SSR along with authentication and admin dashboards, resulting in 40% faster page loads and improved SEO performance</li></ul>  |

## EDUCATION

<b>Bachelor of Technology in Computer Science</b>	Durgapur Institute of Advanced Technology and Management GPA - 8.2 / 10
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## INTERNSHIP

June 2025 – July 2025	IEEE CIS Kolkata Chapter Summer Internship 2025 Development of Agent AI for Cybersecurity Internship.
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## CERTIFICATES

- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional, Oracle, 2025
- Development of Agent AI for Cybersecurity Internship, IEEE CIS Kolkata, 2024
- Machine Learning using Python, Cadeasy, 2024
- Python for Everybody, Coursera, 2023
- Web Development Bootcamp, Teachnook, 2023