



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	M.TECH Dual Degree 5Y	IIT Kharagpur	8.45 / 10
2021	Central Board of Secondary Education	Divine Public School	87.00%
2019	Central Board of Secondary Education	Vivekananda Central School	94.60%

## WORK EXPERIENCES

<b>Founder   ScholarSphere, IIT Kharagpur</b>	<b>[Mar 2024 - Present]</b>
<b>Overview:</b> Founded ScholarSphere to facilitate access for viewers to research intern opportunities through streamlined data organization	
<ul style="list-style-type: none"><li>Developed a website using <b>Supabase</b> and <b>Django framework</b> to provide access to Research intern opportunities, reaching <b>20k+</b> viewers</li><li>Compiled detailed profile data of over <b>1600</b> professors by implementing web scraping techniques with <b>BeautifulSoup4</b> and <b>Selenium</b></li><li>Structured data into a searchable format with filters for <b>50+</b> universities &amp; <b>100+</b> research areas, enabling easy access to professors' profile</li></ul>	
<b>Research Consultant   WorldQuant, Delhi</b>	<b>[Feb 2024 - Present]</b>
<b>Overview:</b> Constructed, backtested, and optimized over 20 quantitative trading alpha expressions using historical stock market information	
<ul style="list-style-type: none"><li>Engineered <b>20 trading criteria</b> to weigh stocks of portfolios from the subsets of <b>top 3000</b> most liquid <b>equities</b> of the <b>US &amp; CHN</b> markets</li><li>Utilized data fields from the <b>price action</b> and <b>fundamental datasets</b>, operated with <b>time - series</b> to generate statistically robust alphas</li><li>Optimized each alpha to a minimum <b>Sharpe</b> of <b>1.25</b>, <b>fitness</b> of <b>1</b> and turnover below cutoff <b>70%</b> for an in-sample backtest of <b>5 years</b></li></ul>	
<b>Web Developer Intern   Algozenith, Nagpur</b>	<b>[Mar 2023 - Apr 2023]</b>
<b>Overview:</b> Developed a <b>Slack bot</b> for asynchronous message processing & real-time communication between producers and Slack channels	
<ul style="list-style-type: none"><li>Engineered a scalable <b>Node.js</b> &amp; <b>TypeScript</b> backend, leveraging type-safe for robust transaction handling &amp; seamless <b>Slack</b> integration</li><li>Created a <b>Fastify Slack bot</b> that delivers real-time alerts with <b>timestamped</b> notifications, capable of delivering <b>2000+</b> alerts per second</li><li>Integrated <b>RabbitMQ</b> to reduce the message drop chance to <b>0%</b> with acknowledgements and used <b>PostgreSQL</b> for transactions logging</li></ul>	

## PROJECTS

<b>Cinerearch   Opensoft</b>	<b>[Feb 2024 - Mar 2024]</b>
<b>Overview:</b> Developed a movie website with responsive interface, enhanced search functionality, and effective recommendation algorithms	
<ul style="list-style-type: none"><li>Developed a <b>silver-winning</b> movie website using <b>ReactJS library</b>, ensuring a <b>responsive</b> interface with an engaging browsing experience</li><li>Enhanced database performance by integrating <b>MongoDB Atlas Search</b>, strengthening search functionality with <b>querying</b> and <b>filtering</b></li><li>Implemented <b>KNN</b> using <b>Cosine Similarity</b> and <b>collaborative filtering</b> and achieved a minimum <b>BCE</b> of <b>0.606</b> on <b>train</b> and <b>0.610</b> on <b>test</b></li></ul>	
<b>Kryptonium   DApp for Online Transaction</b>	<b>[Dec 2023 - Jan 2024]</b>
<b>Overview:</b> Developed Kryptonium, a blockchain web application for Ethereum transactions using ReactJS, Solidity, and Metamask integration	
<ul style="list-style-type: none"><li>Engineered a <b>blockchain</b> web application to facilitate Ethereum transactions over <b>Ethereum Virtual Machine</b>, utilizing <b>ReactJS</b> and <b>CSS</b></li><li>Crafted and Implemented <b>smart contracts</b> using <b>Solidity Language</b>, and deployed on the <b>Goerli Ethereum</b> test network environment</li><li>Integrated the <b>Metamask Wallet</b> extension for secure &amp; user-friendly Ethereum wallet management within the web application interface</li></ul>	

## AWARDS AND ACHIEVEMENTS

<ul style="list-style-type: none"><li>Attained title of <b>Expert</b> with a rating of <b>1615</b> on <b>Codeforces</b> (ID: Shahil_Gupta) &amp; <b>5*</b> with a rating of <b>2009</b> on <b>Codechef</b> (ID: atpugliha)</li><li>Secured a <b>global rank</b> of <b>21</b> in the CodeChef Starters 135 2024 (<b>Division 2</b>) &amp; <b>70</b> in the CodeChef Starters 123 2024 (<b>Division 4</b>) contests</li><li>Ranked in the top <b>0.5%</b> among over <b>1 Lakh</b> students in Code with Cisco 2023, consequently securing a coveted <b>Pre-Placement Interview</b></li><li>Achieved an All India Rank amongst the <b>top 0.8%</b> in JEE Mains and the <b>top 2%</b> in the JEE Advanced 2021 amongst over <b>12 Lakh</b> students</li></ul>	
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## SKILLS AND EXPERTISE

<b>Languages</b> - C   C++   JavaScript   Solidity   Python   HTML   Java	<b>Libraries/Framework</b> - ReactJS   Fastify   Typescript   Selenium
<b>Software</b> - Visual Studio Code   Atom   Code::Blocks   Jupyter Notebook   Sublime   PyCharm   Slack   Microsoft Excel   Microsoft Word	

## COURSEWORK INFORMATION

Programming and Data Structures*   Design and Analysis of Algorithms   Computer communication and Networking   Algorithms 1   Probability and Statistics   Advanced Calculus   Transform Calculus   Linear Algebra, Numerical and Complex Analysis
* (Lab + Theory)

## POSITIONS OF RESPONSIBILITY

<b>President   Poshan Chapter   Feeding India by Zomato</b>	<b>[Sep 2023 - Present]</b>
<ul style="list-style-type: none"><li>Spearheaded a team of <b>50 students</b> to organize and execute a <b>donation camp</b> for an orphanage, coordinating the distribution of supplies</li><li>Led a fundraising campaign, which culminated in the generation of over <b>INR 50k</b> to support the critical needs of underprivileged children</li></ul>	
<b>Secretary Dramatics   Patel Hall of Residence   IIT Kharagpur</b>	<b>[Nov 2022 - Mar 2023]</b>
<ul style="list-style-type: none"><li>Conducted Practice sessions of the dramatics events, <b>General Championship</b>, <b>Social and Cultural</b> for the academic session 2022-2023</li><li>Managed a budget of over <b>INR 100,000</b> for Dramatics events, overseeing the organization of Stage Plays, Street Plays, and Choreography</li></ul>	

## EXTRA CURRICULAR ACTIVITIES

<ul style="list-style-type: none"><li><b>Sports:</b> Won the <b>Silver Medal</b> in the Intra-Hall Chess Tournament at Patel Hall of Residence, securing <b>2nd</b> place among <b>50+</b> participants</li><li><b>Mentoring:</b> Mentored 1st-year undergraduate students in the Programming and Data Structures, taught core concepts of C programming</li></ul>	
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