

# H Aditya Kumar

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[LinkedIn](#) | [GitHub](#) | [CodeForces](#) | [Leetcode](#)

## EDUCATION

<b>Indian Institute of Technology Bhubaneswar</b> <i>B.Tech. Dual Degree in Mechanical System Design - CGPA: 8.17</i>	Bhubaneswar, Odisha 2021 – Present
<b>Modern Vidya Niketan, Faridabad</b> <i>Senior School Certificate Examination, CBSE - CGPA 9.6</i>	Faridabad, Haryana 2018 - 2020

## EXPERIENCE

<b>Research Consultant Intern</b> <i>Worldquant LLC</i> <ul style="list-style-type: none"><li>Developed production-level trading strategies using Brain's simulation-based platform for financial simulations.</li><li>Applied advanced quantitative techniques and data analysis, submitting 30+ strategies for out-of-sample testing.</li></ul>	Oct 2023 – Oct 2024
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## PROJECTS

<b>Edge11</b>   <a href="#">GitHub</a>   <a href="#">Link</a> <ul style="list-style-type: none"><li>Created a Dream11 prediction platform using an XGBoost model with 95% accuracy, trained on 20+ years of cricket data while addressing future date handling and retired player scenarios.</li><li>Built a user-friendly web app with Next.js and Flask, integrating an AI-powered chatbot for personalized player selection insights.</li><li>Delivered actionable insights through interactive visualizations of model performance and predictions.</li></ul>	Oct 2024
<b>Chess Engines</b>   <a href="#">GitHub</a>   <a href="#">Link</a> <ul style="list-style-type: none"><li>Designed a chess platform with three play modes: Random AI, Stockfish engine, and a reinforcement learning model trained on 60,000 games.</li><li>Developed a responsive Next.js frontend, Flask APIs, and deployed on Azure and Vercel for scalable, high-performance delivery.</li></ul>	May 2024
<b>R-Auction</b>   <a href="#">GitHub</a>   <a href="#">Link</a> <ul style="list-style-type: none"><li>Built a reverse auction platform enabling real-time bidding, secure user authentication, and seamless functionality using the MERN stack.</li><li>Deployed on Vercel for fast, real-time updates and optimized MongoDB integration for efficient data handling.</li></ul>	Dec 2023
<b>AI-Powered Pupil Dilation Tracking for Disease Monitoring</b> <ul style="list-style-type: none"><li>Developed a real-time AI framework using U-Net and CNNs to track pupil dilation for disease monitoring, leveraging TensorFlow for precise predictions under the supervision of Dr. Satish K Panda.</li><li>Enhanced segmentation accuracy by processing images in the frequency domain and implemented automated data labeling to streamline training.</li></ul>	July 2024 - Present

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Python, JavaScript/Typescript, HTML/CSS, MATLAB  
**Technologies/Frameworks:** React, Node.js, Flask, Tailwind CSS, MongoDB, Postgres, Tensorflow, OpenCV  
**Dev Tools:** Git, Github, Postman, Docker, AWS

## CERTIFICATIONS AND ACHIEVEMENTS

**C++ Advanced Algorithms** - Udemy | [Certificate](#)  
**Deep Learning** - DeepLearning.AI, Stanford University | [Certificate](#)  
**Participated in Inter IIT Tech Meet 13.0** - IIT Bombay  
**1st Place in Data Detectives Challenge** - Wissenaire(TechFest), IIT Bhubaneswar

## LEADERSHIP AND RESPONSIBILITY

<b>Core Member</b> - Tensor Club (ML Society)	<b>Core Head</b> - Alma Fiesta (Cultural Fest)
<b>Core Member</b> - Data Science Club	<b>Core Member</b> - Cinewave (Cinematics Society)
<b>Core Member</b> - Software Development Club	<b>Core Member</b> - Produit (Product Development Club)