

# RANJAN V

Competitive Programmer, Aspiring Quantitative Developer & Researcher  
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**Portfolio** | **Linkedin** | **Codeforces** | **GitHub** | **HackerRank** | **Youtube**

## EDUCATION

**Vellore Institute of Technology**  
Computer Science and Engineering Bachelors  
CGPA: 8.25

Andhra Pradesh, India  
September 2023 - May 2027

**Jawahar Navodaya Vidyalaya, Tumkuru**  
Physics, Chemistry, Maths, Informatics Practices, English  
Percentage: 82%

Karnataka, India  
July 2022 - March 2023

## SKILLS

Programming Languages: Python, C++, Java, C  
Libraries/Frameworks: Data Structures & Algorithms, Pandas, NumPy, Scikit-learn, Matplotlib, SciPy, Statsmodels, TensorFlow  
Tools / Platforms: Github, Anaconda Navigator, IntelliJ Idea, VS Code  
Databases: MySQL, SQL Server  
Languages Spoken: English, Hindi, Kannada, German(Basic)  
Quantitative Skills: Probability & Statistics, Linear Algebra, Calculus, Stochastic Processes  
Other: Soft Skills, Teaching, Mentorship, Leadership, Communication

## EXPERIENCE

**Software Development Engineer Intern** Remote | April 2025- May 2025  
**Bluestock Fintech**

- Optimized Python-based backend for trade strategy management, reducing processing time by 40%.
- Refactored core logic and improved data workflows, boosting performance by 25% and enhancing scalability.

**AI Model Trainer** Remote | October 2025- Current

### Invisible

- Enhanced a multilingual LLM's accuracy by 32% through iterative training on large-scale datasets and hyper-parameter tuning.
- Worked with the AI model development team to refine algorithms, enhancing the reliability of the multilingual model.

## PROJECTS / OPEN-SOURCE

**Quantitative Market Simulation Engine** *Python, NumPy, Flask, Plotly, HTML/CSS*

- Built limit order book engine with price-time priority matching, achieving 5.41% returns (1460% annualized) on 10,080 minutes of real Bitcoin data while market dropped 4.5%
- Implemented market making strategy with dynamic inventory management, executing 1,611 trades with 80.8% win rate, 2.15 profit factor and maintaining max drawdown under 3%
- Developed comprehensive backtesting framework with performance analytics (Sharpe ratio, drawdown, PnL tracking) and interactive visualizations for order book depth, trade flow and equity curves

**Legal-Analyser** *JavaScript, Generative AI, NLP, Browser Extension*

- Developed a generative AI-powered browser extension that summarizes and analyzes legal documents with 91% accuracy in key risk detection and clause extraction.
- Integrated an interactive AI chatbot enabling real-time context-aware Q&A, improving user comprehension and reading efficiency by 65%.

## ACHIEVEMENTS

- Ranked 6<sup>th</sup> in Algomania, a national-level Competitive Programming competition hosted by IIT Kharagpur.
- Earned Expert Rank on Codeforces with a contest rating of 1719.
- Achieved 6-star rating on CodeChef with a peak rating of 2232 and global rank of 389 and country rank of 140 (top 0.1%).
- Earned Knight badge on LeetCode, ranking in the top 5% based on contest performance.
- Ranked in the top 0.08% globally (193/242,948) in HackerRank's Project Euler Contest.
- Achieved Gold (6-star) ratings in Problem Solving on HackerRank.

## CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Data Science Professional
- Oracle Cloud Infrastructure 2025 Generative AI Professional
- Oracle Cloud Infrastructure 2025 Certified Developer Professional

## LEADERSHIP & INITIATIVES

**Founder & President- RISE Foundation** Remote | Jul 2025 – Present  
Mentored 500+ students in academics and career planning through community-building workshops.

**Content Creator - Code With Ranjan (YouTube)** Remote | Jan 2025 – Present  
Taught Data Structures & Algorithms concepts to over 1,000 learners via video tutorials and contest reviews.

**President - CodeCrux VITAP** VIT-AP University | Jul 2025 – Present  
Founded a Tech club at the university focused on competitive programming, problem-solving and coding culture development at VIT-AP.