Roshan Kumar Sahu

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Education

National Institute of Technology, Rourkela **November 2021 - May 2025**
Bachelor of Technology in Computer Science and Engineering(CGPA of 8.52/10) *Odisha, India*

- Technical Courses: Data Structures and Algorithms, Analysis and Design of Algorithms, Database Management Systems,Object Oriented Programming, Distributed System, Computer Networks

Khallikote College, Berhampur **June 2019 - June 2021**
Senior Secondary (Percentage 93.8) *CHSE exam, India*

De Paul Scool, Berhampur **June 2018 - June 2019**
Matriculation (Percentage 96.2) *ICSE exam, India*

Experiences

Software Engineer HFT, Findoc **May 2025 - Present**

- Developed a high-performance back-tesing system to run simulation of actual market data, and allows stratergies to generate PnL using different time modulation.
- Built custom network stack bypassing the kernel , allowing to capture the packet directly to the software , by terminal the linux/kernal cpu overheads..
- Develoved various algorithms that optimizes the different library function, by reducing latency overheads by 60 percent.

Software Engineer Intern HFT, Findoc **Dec 2024 - May 2025**

- Developed a high-performance packet recording system to capture packets from the Exchange server and store them in multiple formats.
- Optimized packet transmission and implemented a recovery mechanism to minimize and recover lost packets.
- Designed an automated surveillance system that detects process/thread terminations and packet loss, triggering real-time call notifications to mitigate issues.

SWE Intern, Microsoft **May 2024 - July 2024**

- Developed a program to run load test using **Azure Load test SDK,.NET and Csharp**,enabling the user to load test their servers using JMeter scripts and also by providing http address.
- Automated the whole process using **Cron .NET library** by scheduling the load test according to the user.
- Enabled users to configure the load test through UI de- veloped using WinForms.

Projects

Skin Cancer Classification | GitHub **Jan 2024**

- Utilized pretrained VGG-16 and VGG-19 models for deep feature extraction from skin cancer images.
- Implemented feature fusion techniques to merge deep features from both VGG models.
- Applied Random Forest classifier for ensemble learning, enhancing classification accuracy.
- Achieved 95% accuracy, 92% precision, 90% recall in skin cancer image classification, showcasing effective transfer learning and robust performance.

Achievements/Certifications

- Attained **NISM Equity Derivatives** certification. Certificate
- Attained a **global rank of 103** in the **Codechef contest Starters 71** (2022), demonstrating coding proficiency and problem-solving skills. Codechef Profile Codeforces Profile Leetcode Profile

Technical Skills

Programming Languages: C++, Csharp, Javascript, HTML/CSS, Python, MySQL
Technologies/Frameworks/Libraries: ReactJS,NodeJS, Pandas, Git, .Net, JMeter, Azure Data Explorer