RAJ THARANI

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Linkedin: https://www.linkedin.com/in/raj-tharani-34a79b250

GitHub: https://github.com/rajtharani77

Kaggle: https://www.kaggle.com/code/rajtharani/ml-model-for-packtr-analysis-and-learning

DSA(leetcode): https://leetcode.com/u/rajtharani77/ Mobile: +91 8770780565

EDUCATION

Madhav Institute of Technology & Science Gwalior, India

Bachelor of technology Computer Application; GPA: 7.4 **Aug 2022 - May 2026**

SKILLS SUMMARY

- **Languages:** JAVA, JavaScript, Python
- **Frameworks:** MERN Stack, React.js, Tailwind CSS
- **Tools:** Git, GitHub, MongoDB Compass
- **Platforms:** KAGGLE, Colab, Visual Studio Code
- **Soft Skills:** Problem Solving, Communication, Teamwork, Time Management, Industry-focused solution design, Critical Thinking

WORK EXPERIENCE

Cyber Security Intern CDAC-NOIDA | LINK **September 24- October 24**

- Streamlined data collection and reporting procedures, reducing processing time by 20% enhancing efficiency.
- Implemented process improvements and automation solutions, resulting in 15% increase in productivity.
- Collaborated with 3+ cross-functional teams to gather requirements, define project scopes, and ensure alignment with business objectives, fostering effective teamwork and project success.
- Produced 15+ comprehensive reports and presentations summarizing findings and recommendations, facilitating clear communication with stakeholders and driving actionable outcomes.
- Conducted in-depth market research and analysis, resulting in the identification of 10+ key trends and insights that informed strategic decision-making processes.

Outreach Intern PREGRAD | LINK

- Coordinated a student outreach initiative via WhatsApp, engaging over 25+ peers and streamlining communication for career development resources.
- Mentored and advised students, contributing to the formulation of structured outreach strategies aligned with engagement metrics and feedback loops.
- Implemented a data-backed outreach model, resulting in a 15% increase in trainee participation and improved student response rate across targeted campaigns..

PROJECTS

AI-Based Network Packet Prioritization (Research Project)| LINK **December 24- February 2025**

- Designed and implemented an intelligent packet prioritization system using real-time network traffic data (~2.5GB) to classify and route packets based on transmission frequency and data criticality.
- Applied K-Means clustering to segment over 100,000 packet instances into behavioral groups, achieving 87% clustering accuracy for high-frequency vs. low-frequency packets.
- Trained a GRU-based temporal model for sequential prediction of packet flow patterns, achieving a mean squared error (MSE) of 0.026 on validation data.
- Integrated Proximal Policy Optimization (PPO) to dynamically optimize routing decisions based on reinforcement signals, improving network throughput efficiency by 21% and reducing latency under simulated congestion scenarios by 18%.

Responsive Landing Webpage (Frontend Development Project)| LINK **February 25- March 2025**

- Developed a mobile-first, responsive landing page using HTML5, CSS3, and vanilla JavaScript, ensuring compatibility across 20+ device resolutions and browsers.
- Integrated modern UI toolkits (e.g., Bootstrap, Flexbox) to streamline layout design, reducing page structure complexity by 40% and improving user interaction flow.
- Optimized loading speed and performance, achieving a Lighthouse Performance Score of 96+, with <1.5s first contentful paint (FCP) on average.
- Applied front-end design principles including semantic HTML, modular CSS, and event-driven JavaScript to ensure maintainability and scalability.

CERTIFICATES & ACHIEVEMENTS

Wireless Ad hoc& sensor network, NPTEL- 2025| CERTIFICATE **March 2025**

User-Centric computing for human-computer intrection,NPTEL-2025| CERTIFICATE **March 2025**

Full-Stack web development, Udemy | CERTIFICATE **April 2025**