

Manmath Mohanty

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[LinkedIn](#) • [Github](#) • [CodeChef](#) • [Codeforces](#) • [Leetcode](#) • [Personal Portfolio](#)



PROFESSIONAL SUMMARY

Full-Stack Software Developer and physics-based simulations, and Linux systems. Multi-hackathon winner. Strong expertise in open-source development, and data structures & algorithms. Proven track record in high-performance frontends, reactive libraries, and distributed systems driven by developer productivity, performance optimization, and real-world simulation engines.

EDUCATION

Bachelor of Technology (AI ML) Newton School Of Technology, Adypu Pune	2024 - 2028 Grade: 8.64/10.0
Intermediate (Class XII) Sri Sankara Vidhilaya , Bhilai	2023 - 2024 Grade: 70.0%
Matriculation (Class X) Jyoti hr sec eng med school , Durg	2021 - 2022 Grade: 85.6%

INTERNSHIPS

Frontend Developer UI Designer Get Interview Confidence	April 2025 - Present Pune
<ul style="list-style-type: none">Improved user experience by 30% by building responsive UIs with Next.js and Tailwind.Reduced development time by 25% by converting Figma designs into reusable UI systems.Collaborated with 3+ product and design teams to deliver accessible, production-ready interfaces across platforms.	

PROJECTS

Trajectory Detector (Github) (Demo)	December 2025
<ul style="list-style-type: none">Built a real-time mission-control dashboard using React.js, Next.js, TailwindCSS, and Framer Motion, achieving 200ms UI latency across 10+ live telemetry streams.Developed Node.js/Express backend services with MongoDB and WebSockets, streaming 5K+ events/min with 99.9% uptime.Integrated 3D space simulations using Three.js, React Three Fiber, and NASA Open APIs, rendering 60 FPS interactive mission visuals.	
MISAI (Github) (Demo)	October 2025
<ul style="list-style-type: none">Built MISAI's evaluation engine running hallucination, adversarial and many more tests.Developed secure real-time scoring APIs with 150ms latency for enterprise and government validation workflows.Implemented multi-model benchmarking pipelines, improving evaluation accuracy and throughput by 40%+.	
Exoplanet Detector (Github) (Demo)	September 2025
<ul style="list-style-type: none">Engineered a physics-driven exoplanet detection engine combining transit photometry, luminosity analytics, and ML/NumPy pipelines, achieving 50% higher detection accuracy on small-radius candidates.Applied advanced signal-processing techniques (FFT, wavelet filtering, multi-window smoothing) to classify stellar events and detect micro-scale brightness dips, reducing false positives by 38% across noisy datasets.Engineered a physics-driven exoplanet detector using transit photometry and ML/NumPy; applied FFT filtering to detect brightness dips and automated validation with LLM reasoning, improving accuracy by 50%.	

CERTIFICATIONS

Finalist Nasa (Link)	August 2024
<ul style="list-style-type: none">NASA Space Apps — Global Finalist: recognized globally for innovation and problem-solving.	

- **Google Security Program:** Gained hands-on experience in cybersecurity, threat detection, and system defense.

SKILLS

Computer Languages: SQL, C++, Python, JavaScript, HTML, NoSQL, TypeScript

Software Packages: MongoDB, Node.js, Redux, React, Prisma ORM, Linux, AngularJS, Vue.js, Figma, Pandas

Soft Skills: Communication Skills, Responsibility, Teamwork, Creativity, Decision-making, Team Building, Leadership

Others: LLM, Three.js, Hugging Face, API testing, Bash Scripting, Problem-Solving, UI/UX, Git and Github

EXTRA-CURRICULAR ACTIVITIES

- **NASA Space Apps — Global Finalist:** Recognized among top global innovators for tech solution using NASA data.
- **Nirman Hackathon Winner :** Led team to first place by developing innovative real-world solution at Hackathon
- **Customized Linux Distributions:** Built optimized Linux distros with kernel-level tweaks, and custom tooling.