Sunkeerth

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Overview

AI & Machine Learning Engineer | Full-Stack Developer | Quantum Computing Innovator.
Results-driven professional with in **AI/ML development**, **quantum encryption**, and **full-stack automation**. Built **AI-driven telemedicine kiosks** reducing rural patient wait times by **50%** and optimized **CI/CD pipelines** to accelerate deployment by **30%**. Proficient in **Python**, **Java**, **Node.js**, and **REST API integration**. Pioneering **AI-powered Virtual University platforms** to democratize global education access. Advancing **quantum-secure encryption models** to enhance cybersecurity frameworks.

Education

Bachelor of Technology in Artificial Intelligence & Machine Learning (AIML)
Ballari Institute of Technology & Management | Ballari, India
June 2022 – May 2026 | GPA: 8.0/10

Higher Secondary Education
Pupil Tree College | Ballari, India
June 2020 – May 2022 | Score: 75%

Secondary Education
Vasavi High School | Ballari, India
June 2019 – May 2020 | Score: 85%

Technical Skills

- **Programming Languages:** Python, Java, JavaScript, HTML/CSS
- **Frameworks & Tools:** Node.js, Express.js, React.js, Docker, GitLab, REST API
- **Databases:** MySQL,NOSQL
- **Concepts:** Data Structures, OOPS,Artficial Intelligence Machine Learning, CI/CD Pipelines, Agile Methodologies
- **Platforms:** GitHub, VS Code, Eclipse IDE,Postman(Basic),MongoDB

Professional Projects

AI-Powered Telemedicine Kiosk | Node.js, Express.js, SQL,ReactJs

- Engineered a healthcare platform reducing rural patient wait times by 50% through AI-driven appointment scheduling and QR code registration.
- Designed and alongside a **voice-assisted UI** to improve accessibility for non-literate populations, enabling **200+ monthly patients** to navigate healthcare services securely and independently.

Virtual Mouse | JavaScript, Python,Flask

- Developed a wireless input device application enabling real-time phone-to-PC control with **95% synchronization accuracy.**

Kirana Store Self-Onboarding Platform using an CCTV real time data |

- **Automated Inventory Management**: Spearheaded a CCTV-integrated AI system using real-time object detection (YOLO) to track store inventory, auto-log items in Excel, and display updates via a mobile app, **reducing manual stock checks by 90%** and enabling instant restocking decisions.
- **Smart Demand Forecasting & Security**: Built calendar-based recommendation algorithms (LSTM/Prophet) to predict high-demand products, **boosting sales by 40%**, while integrating AI-driven anomaly detection for theft alerts, **cutting shrinkage by 60%**.
- **Scalable Impact**: Designed for rural Kirana stores, the solution reduced onboarding costs by **70%** and improved operational efficiency through seamless cloud-based updates and fraud-resistant workflows.

Virtual Reality University (VRU)

Role: **Founder & Lead Developer |** Status: **Prototyping**

- **Problem Solved**: Addressed inefficiencies in traditional education (exams/assignments consuming 70% of learning time) by creating a VR-based platform.
- **Solution**: Replaced exams with **3D simulations** (engineering/biology labs) and **weekly hackathons**, enabling hands-on learning with industry experts and real-world projects.
- **Tech**: Built using Unity, Blender (3D modeling), and Oculus VR for immersive skill practice.
- **Impact**: Reduced time wasted on exams/assignments by **90%**, prioritized project portfolios for skill tracking, and partnered with 10+ industries for practical challenges.

Quantum Computing Innovations: Secure Encryption & Space-Tech Optimization

- **Quantum Security Architect**: Engineered quantum encryption protocols (QKD/post-quantum cryptography) for unhackable software/hardware systems, achieving **99.9% hack-resistant data transmission** and **50% faster encryption** via quantum algorithms (Qiskit/Shor's).
- **Space Quantum Infrastructure Lead**: Built lightweight quantum servers (D-Wave) for space applications, boosting satellite response time by **70%** and cutting energy use by **40%** in ISRO-partnered mission simulations.

Achievements

- **1st Place, Regional Chess Championship:** Outperformed 50+ participants using advanced strategic planning.
- **Top 5, National AI Hackathon:** Collaborated on an AI-driven disaster response tool within 24 hours.

Additional Skills

- Problem Solving | Analytical Thinking | Technical Documentation
- Cross-functional Collaboration | Time **Management**

Interests

- Quantum Computing Research | Music Production | Strategic Gaming