SHREESH DWIVEDI

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EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY   **Bhopal, Madhya Pradesh**
Bachelor in Technology Computer Science (Specialization in Cloud Computing & Automation)   *October 2022 – Present*
CGPA: 7.52

SUNBEAM SCHOOL   **Ayodhya, Uttar Pradesh**
Senior Secondary Education   *April 2021 – April 2022*
Percentage: 74 %

SUNBEAM SCHOOL   **Ayodhya, Uttar Pradesh**
High School Education   *April 2019 – April 2020*
Percentage: 86.4 %

TECHNICAL SKILLS

- ❖ **Programming & Analysis:** Python (Pandas, NumPy), SQL, JavaScript/TypeScript
- ❖ **Data Science & ML:** OpenCV, Data Visualization, Predictive Modeling, Computer Vision, Statistical Analysis
- ❖ **Analytics & BI Tools:** Power BI, Tableau, MS Excel (Advanced Formulas, VLOOKUP/XLOOKUP, Pivot Tables, Macros)
- ❖ **AI & NLP Tools:** Generative AI, RAG Systems, Embeddings, Vector Databases, Hugging Face
- ❖ **Databases & Cloud:** PostgreSQL, MySQL, MongoDB, AWS, Google Cloud, Firebase
- ❖ **Web Development (MERN Stack):** React, Node.js, Express.js, MongoDB, REST APIs, HTML/CSS
- ❖ **Tools & Methodologies:** Git, Docker, CI/CD, Jupyter, Agile, FastAPI

WORK EXPERIENCE

Quant AI Limited, Auckland, New Zealand   May 2025 – August 2025
Remote Intern – Data Scientist

- ❖ Engineered a full-stack video analysis system using YOLOv8 + FastAPI + React, boosting analysis efficiency by 83% through automated detection.
- ❖ Implemented a RAG-based document search system using embeddings and vector stores, increasing retrieval accuracy by 60% and reducing manual lookup time.
- ❖ Operated in a remote global team, deploying 3+ automated CI/CD pipelines that reduced deployment time by 70% and refined system reliability.
- ❖ Automated PDF data extraction with Python, saving 3 hours/week on manual validation while improving accuracy by 8%.
- ❖ Collaborated in agile, remote teams to integrate cloud infrastructure and ensure secure backend operations.

ACADEMIC PROJECTS

CivicSpot – Social Awareness Web App | (MERN Stack, AI, Google Cloud)

- ❖ Created a MERN-based platform that processed 200+ user-reported civic issues, visualized on an interactive Google Maps interface.
- ❖ Developed secure Node.js APIs that handled 100+ daily requests with <200ms response time, and a React UI that improved user engagement by 25%.
- ❖ Integrated Google Vision API with a custom ML classifier (58% accuracy) to automatically validate and categorize uploaded content

AI Powered Video Object & Activity Detection | (YOLOv8, FastAPI, React)

- ❖ Architected a video analysis platform handling 50+ hours of content while maintaining 95% object detection accuracy.
- ❖ Implemented real-time error detection and notification system for video processing; system flagged and resolved 95% of errors automatically, ensuring seamless user experience.
- ❖ Leveraged YOLOv8 and OpenCV to achieve real-time processing at 30 FPS, enabling instant activity inference.

CERTIFICATIONS

- ❖ Data Science Professional | Oracle (2025)
- ❖ Generative AI Professional | Oracle (2025)
- ❖ MERN Full-Stack Certification | Ethnus (2025)
- ❖ Solutions Architect Associate Training | AWS (2025)