Manish P

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Education

VISVESVARAYA TECHNOLOGICAL UNIVERSITY   **MITM,** Mysore

B.E. Computer Science — Artificial Intelligence | **GPA:** 7.24/10.0   **Nov** 2022 - **Present**

Relevant Coursework: Python Programming, Data Structures & Algorithms, Machine Learning, Deep Learning, MLOps, EDA, Cyber-Security

St. Joseph's PU College   **Aug** 2020 - **Jul** 2022

Skills: Python | C++ | JavaScript | TensorFlow, PyTorch, Scikit-learn | OpenCV | FastAPI | REST APIs | Docker | CI/CD | SQL | MongoDB | Statistics | Predictive Models | Pandas | NumPy | Matplotlib | Seaborn

Projects

- **Wanderwise AI**   **Sep** 2025 – **Present**

Spearheaded the development of a generative AI travel planner leveraging LLMs, reducing user planning time by **70%** across 200+ use cases.

Implemented GPU-optimized ETL and batch-processing workflows, **accelerating model training by ~50%**.

Incorporated Explainable AI (Grad-CAM) to produce visual insights, ensuring **full interpretability across evaluated datasets** and improving user trust.

- **Brain Tumor Detection xAI**   **Aug** 2024 – **Present**

Tech: **TensorFlow, EfficientNet, DenseNet, ResNet, PyTorch, Scikit-learn, XAI, NumPy, Matplotlib, RAG**

Architected an ensemble CNN pipeline achieving **98% classification accuracy** on MRI data.

Automated preprocessing and GPU-driven training loops, **cutting experiment iteration cycles by nearly 2×**.

Delivered Grad-CAM powered diagnostic heatmaps for **every processed scan**, aiding clinician decision-making.

- **Satellite Image Analysis**   **Aug** 2024 – **May** 2025

Tech: **OpenCV, TensorFlow, ResNet50, Pandas, Docker, CI/CD, Geospatial ML**

Designed a deep-learning classifier for **5,000+ satellite images**, enabling precise terrain mapping and segmentation.

Optimized OpenCV-based preprocessing pipelines, **reducing dataset preparation time by 30%** for geospatial workloads.

Orchestrated deployment through Docker and **end-to-end DevOps CI/CD pipelines**, **reducing release cycles by 50%**.

- **Portfolio Project**   **Aug** 2024 – **May** 2025

Tech: **Next.js 15, React, SSR, REST APIs, SEO, Lighthouse Audits**

Built a high-performance full-stack portfolio platform with SSR, achieving **0.4s load speeds**.

Developed reusable React hooks and component architecture, **reducing code duplication by ~30%**.

Achieved top-tier Google Lighthouse results: **100/100 SEO**, **96/100 Best Practices**, and **0.4s FCP**.

Achievements & Volunteering

Professional Certifications.

Machine Learning Specialization — Coursera (2025)

DevOps, DataOps, MLOps — Coursera (2025)

IBM Applied AI Professional Certificate – Coursera (2025)

100 Days of Code — The Complete Python Pro Bootcamp — Udemy (2024)

Technical Hackathons.

Competed in **4+** national and state-level hackathons, including **Smart India Hackathon (SIH)** and **L&T Techgium**, solving complex real-world technical challenges under strict deadlines.   **Nov** 2023 - **Dec** 2025

Project Poster Design. [AI Club]   MITM, Mysore

Secured **2nd Place** out of **30+ teams** in the **AI Club Project Exhibition** (Poster Design), recognized for excellence in technical storytelling and visual presentation.   **Nov** 2025

Volunteered with **Youth for Seva (Chiguru):** Mentored **50+** underprivileged children and facilitated logistics for a **500+** attendee talent carnival.   **Jan** 2024 – **Feb** 2024