

Aayush Anand

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Education

- M.Tech. in Artificial Intelligence 2024 - 26
Defence Institute of Advanced Technology (DIAT), Pune CGPA: 7.52
- B.Tech. in Computer Science & Engineering 2019 - 2023
Vellore Institute of Technology (VIT), CGPA: 7.65
- Class 12
Little Flower House School, Varanasi 2019 (CBSE) – 81%
- Class 10
St. John's School, Varanasi 2017 (ICSE) – 81%

Competitive

- JEE Mains 91 percentile
- GATE MA 2023 Score 426
- GATE CS 2024 Score 408

Skills

- LLM Integration
- Prompt Engineering
- Multimodal AI
- Document AI
- Semantic Mapping
- AI Pipelines
- Explainable AI
- LLM Reasoning
- AI Automation
- Streamlit Apps
- Model Evaluation
- RAG Systems
- Cross-Team Collaboration
- Requirement Analysis
- Python Programming
- Java Programming
- C and C++ Programming
- LangChain
- Torch
- Tensorflow

Language

- English
- Hindi
- French A2

MTech AI student with a strong foundation in AI and software development, with hands-on experience in building modular AI pipelines and developing machine learning and computer vision applications. Quick to adapt to new environments, comfortable working independently or in teams, and driven to grow as a developer while contributing to impactful solutions.

Projects

○ LLM based Web Application for SQAG Document Verification

- Research Centre Imarat (RCI), DRDO – Research Intern
July 2025 – Present | Hyderabad, India
- Problem: Manual verification of Software Related files like SRS, SDD documents is time-consuming, error-prone, and difficult to scale across large technical documents.
 - Solution: Designed and implemented a modular AI pipeline integrating text extraction, image extraction and captioning, semantic segmentation, and LLM-based reasoning. Developed checklist-based compliance verification using structured and automated reasoning to validate SRS content.
 - Outcome: Develop a Document AI workflows, enabling more reliable and scalable SRS compliance verification which is accurate, consistent, interpretable.. (Ongoing)

○ Wikipedia QA Assistant (RAG)

QA systems often fail to give grounded answers from large knowledge sources. Developed a RAG-based assistant using LangChain, FAISS, and Google Gemini with Wikipedia content retrieval. Enabled accurate, context-aware answers from Wikipedia data.

○ ML Model for Leaf Disease Detection (Deep Learning)

Final Year B.Tech Project: This project aimed to simplify and improve the way plant diseases are identified, moving away from slow and error-prone manual inspection. I built and trained a VGG-based CNN to recognize more than 35 diseases across 16 different plant species using leaf images. To make the system practical and easy to use, I also developed a simple web interface where users could upload an image and get a prediction. The project delivered reliable multi-class disease detection and helped me gain hands-on experience in deep learning, image processing, and building complete ML applications.

○ Smart Helmet for Miners (IoT)

Miners face safety risks from unseen environmental hazards. I led a team to design and simulate a smart helmet with temperature, smoke, and pressure sensors. Delivered a functional safety simulation using Tinkercad platform and strengthened leadership and system design skills.

Certification

- Data Analytics with Python – NPTEL, IIT
12-week course | Jan–Apr 2025 | Score: 73/100 (Elite Certificate)
Topics: Python for data analysis, statistical inference, regression, clustering, CART, ROC analysis

Hobbies

- Table Tennis, Played Semifinal in VITPL 2022
- Badminton, Qualified group stage in VITPL 2022