VANDIT TYAGI

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Education

International Institute of Information Technology (IIIT) Naya Raipur	**December 2021–August 2025**
B.Tech. in Computer Science and Artificial Intelligence	*7.96/10.00 CGPA*

Relevant Coursework

- ML Algorithms
- Data Structures
- Artificial Intelligence
- Reinforcement Learning
- Generative AI
- DBMS
- Optimization Techniques
- Statistics

Experience

Swiggy | *Data Science Intern* — **November 2023 - June 2024**

- Implemented a point-to-point (P2P) time prediction model, consolidating MultiModel Dependencies into a unified framework, which led to a **24% reduction in deployment costs**
- Leveraged advanced technologies such as Pyspark, Snowflake, and Spark SQL to process and analyze large-scale datasets, enhancing data processing efficiency by 30%

FutureSmart AI | *Data Science Intern* — **July 2023 - October 2023**

- Utilized **LLama2 and GPT APIs** with vector databases like Pinecone, ChromaDB for efficient data handling
- Deployed interactive API endpoints using FastAPI on **AWS** EC2 instances, which improved application response times by 15%.
- Developed a chatbot with a Knowledge base of **2000+ research papers** to provide detailed hypotheses

Projects

Tubechat- Talk with Youtube Video | *LLM, Knowledge Graph, Chrome Extension* 🌐

- ∗ Developed TubeChat, an NLP-based application embedded within YouTube's DOM, enabling interaction with over 99% of videos and processing lengthy videos in 2 minutes.
- ∗ Engineered a user-friendly interface with optimal YouTube API integration, achieving a 20% increase in response time.

Croptech - Automating Banana Farming | *Yolov5, CNN, **Reinforcement Learning**, FastAPI, IOT* 🌐

- ∗ Built an **IoT-enabled simulation** for an autonomous banana harvester robot using Reinforcement Learning, significantly reducing manual labor by 80%
- ∗ Achieved a 10% reduction in crop wastage, time investment, and maintenance costs for farmers

Technical Skills

Programming Languages: Python, C++, Javascript
Developer Tools: Git, Docker, AWS, Microsoft Excel, Google Sheets
Technologies/Frameworks: Pandas, NumPy, Matplotlib, Scikit-learn, Pytorch, FastAPI

ACHIEVEMENTS

- **Winner** at [Ethos Hackathon](#), **IIT Guwahati**, among **100+ teams nationwide** 🔗
- **1st Position** in [ACM HackCON Hackathon](#) at GGSIPU , from all over India 🔗
- **1st** Place among 50+ Teams in [Interrupt Innovate Iterate Hackathon](#) held by iGravity club, **IIIT Allahabad** 🔗
- **Winner** at [Hack-AI-Thon](#) First among **120+ teams all over India** 🔗
- **Second Runner up** at [Opinhacks Hackathon](#), by **MLH** held at Bit Durg 🔗
- **3rd Position** at [Hack The Chain Hackathon](#) , a national-level competition by **IIIT Kota** 🔗
- **3rd Position** at [Hack The Space](#), a national-level Hackathon 🔗
- **2nd Position** at [HackNITR 5.0](#), organised by NIT Rourkela 🔗
- **Finalist** at [Unstop Talent Park Competition](#) among **273 shortlisted candidates out of 68,852 Candidates** 🔗
- **Global Rank 131** in [Kaggle](#), Enefit - Predict Energy Behavior of Prosumers 🔗
- Selected for [Code for Government](#), (C4GT) under the organization Belongg AI 🔗

Publications

- Teacher-Student Knowledge Distillation for Detecting Alcohol Consumption in NIR Iris Images, [CAIP 2023](#) 🔗
- Video Vision Transformers for Violence Detection, [CoRR 2022](#) 🔗