

# ANIKET KUNDU

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## EDUCATION

Vellore Institute of Technology Chennai

Bachelor of Technology in Computer Science Engineering

(07/2023 – 05/2027)

CGPA : 8.7/10, Highest SGPA: 9.21/10

## EXPERIENCE

SpectoV | Machine Learning Intern

(09/2024 – 02/2025)

- Worked in **DESKAVR** team for building intelligent meta- humans powered by multi-agentic models which shall change the game of interview preparation, used convAI agents for b2c solution.
- Worked on report generation and resume Q&A via **multi-document loader RAG** using open source **LLMs** from **Hugging Face** and the GROQ API for b2b solution.
- Led a team for building an automated intelligent scheduled email-generation system for incoming data and updates in logistics records of various teams. Used Google Cloud Platform API services.
- Optimised the model used in **DEFXV** to be production ready, and served as a mentor in **SANKALP**.

Chakaralaya Analytics | Machine Learning Intern

(06/2024 – 08/2024)

- Worked under the guidance of the cofounder and CEO *Dr.Sudarsanam S.K.* from IIT Madras
- Used **PyTorch** to develop a highly optimised **GPU**-accelerated Multi-Criteria Decision Making (**MCDM**) library (to replace the slower PyDecision Library) along with JSON support for the Supplier Selection backend.
- Conducted data analysis and created pre-processing **pipelines** for the incoming new Supplier data.
- Worked on **NLP** techniques for text analysis and **RAG**. Fine-tuned open source **LLMs** from **Hugging Face** towards our purpose to substitute expensive cloud inference API services

## PROJECTS

Free GPT | Python, Pytorch, Langchain, HuggingFace, Mistral AI

- Built a **Multi AI-Agentic** Conversation system using **LangChain**. Extensively fine tuned **Mistral-7B-Instruct-v0.3** 7 billion parameter text generation model to mimic OpenAI's GPT 3.0.
- Used the **HuggingFace** serverless inference API to run inference on the large model on cloud for free, avoiding the usage of the expensive cloud inference API service from OpenAI.

## ACHIEVEMENTS and CERTIFICATIONS

- |   |                 |   |                 |                |
|---|-----------------|---|-----------------|----------------|
| Rating and Titles :   | <b>LeetCode</b> | <b>Codeforces</b>                           | <b>Codechef</b> | <b>AtCoder</b> |
| • <b>Zonal Rank 1, International Rank 18</b> at SOF NCO (Cyber) Olympiad 2019 |                 |   |                 |                |
| • Machine Learning Specialisation - Stanford, Deeplearning.ai                 |                 |   |                 |                |
| • LangChain for LLM Application Development                                   |                 | • IIT Madras CS6910: Deep Learning          |                 |                |
| • Open Source Models with Hugging Face  |                 | • Introduction to On- Device AI by Qualcomm |                 |                |
| • Harvard CS50W - Web development using Python and JavaScript                 |                 |   |                 |                |

## COURSEWORK and SKILLS

**Coursework:** Data Structures & Algorithms, Design & Analysis of Algorithms, Computer Architecture, Operating Systems, Complex Variables & Linear Algebra, Probability & Statistics, Discrete Mathematics & Graphs, Machine Learning, Deep Learning, Natural Language Processing

**Languages:** C++, Python, MySQL, C, Java, R, Verilog, x86 shell, ARM

**Tools and Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn, ReactJS

**Technologies/Frameworks:** Git, GitHub, Django REST, Selenium, Pytorch, Tensorflow