

Tanmay Sharma

tanmaysharmaa27@gmail.com | 9811784551 |

EDUCATION

**MAHARAJA AGRASEN
INSTITUTE OF TECHNOLOGY**
BTECH IN AI-ML
2021-Present
CGPA: 8.61/10

LINKS

LinkedIn:// [tanmaysharma](#)
Github:// [tanmay271](#)

COURSEWORK

UNDERGRADUATE

Fundamentals of Deep Learning
Data Structures
Statistics, Probability and Linear Algebra
Machine Learning
Database Management Systems
Operating Systems
Natural Language Processing
Computer Networks
Software Engineering

SKILLS

PROGRAMMING

Python • C++ • Machine Learning
Natural Language processing
Deep Learning • Neural Networks • Flask
Large Language Models • SQL • Streamlit
• Data Science
Data Structures and algorithms • Java •
MySQL

EXTRA-CURRICULARS

- Competitive Debating
- Public - Speaking lead
- Mentor and member of College literature society

HOBBIES

- Basketball
- Coding
- Listening to music
- football

EXPERIENCE

OMDENA | MACHINE LEARNING ENGINEER

Feb 2024 - Present | Remote

- Working on a project which involves Leveraging LLMs to Understand Global Mental Health Well-being and Fomo in Social Media.
- Used various Web Scrapping tools and APIs like BeautifulSoup and Selenium to extract textual data from various social networking sites like Reddit, Facebook and Instagram.

HYGWELL | MACHINE LEARNING INTERN

March 2024 - Present | Remote

- Working in the Field of generative AI.
- Used various vector Databases like chromaDB, and MongoDB Atlas to create localized servers for GGUF-based LLM models for various use cases.
- Fine-tuned various LLMs using LoRA and QLoRA techniques.

HAPPIEST MINDS TECHNOLOGIES | DATA SCIENCE INTERN

Aug 2023 - Sep 2023 | Noida, India

- Did exploratory Data Analysis on raw data
- Extracted time and frequency domain features to derive insights and find underlying patterns
- Used statistical metrics and graphs for analysis
- Build an ML model comprising of CNN using a data pipeline

PROJECTS

NEWS AND BLOGS SENTIMENT, READABILITY AND COMPLEXITY ANALYSIS USING NLP (LINK)

Jan 2024 - Jan 2024

- Used Web crawling to collect large textual data from over 100 news articles and blogs.
- implemented various NLP techniques to conduct sentimental, readability, and complexity analysis on the data calculating various metrics like polarity score, subjectivity score, percentage of complex words, and average sentence length.

TRAIN PREDICTIVE MAINTENANCE USING AI (LINK)

Aug 2023 - Sep 2023

- I created an ML model to predict failures and detect faults in a Metro Train's Air Production Unit (APU).
- The data collection was part of a research paper titled "The MetroPT dataset for predictive maintenance" by Bruno Veloso, et al. in 2022.
the paper link is : <https://www.nature.com/articles/s41597-02201877-3>
- The readings were collected by 15 sensors in the APU(7 analog and 8 digital) which collected data over 2 years at a rate of 5hz.

RESEARCH PAPERS

WEATHER PREDICTION USING MACHINE LEARNING (LINK)

April 2023 - July 2023

- Used Ridge regression and the Facebook Prophet algorithm to implement a machine-learning model using time-series data collected from the Indian Meteorological Department.