

SOURAV DUTTA

+91 6296199401 ◇ Siliguri, West Bengal
souravsahil100@gmail.com ◇ [LinkedIn](#) ◇ [Github](#)

EDUCATION

Bachelor of Computer Science , Vellore Institute of Technology	8.30 (CGPA)	Sept 2021 - Ongoing
Higher Secondary Education , G. D. Goenka Public School, Siliguri	94.7 (Percentage)	Apr 2019 - May 2020

INTERNSHIP EXPERIENCE

Technical Trainee KloudOne	Oct 2024- Present <i>Remote</i>
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- Collaborated on the design and development of Authnull, a decentralized PAM (Privileged Access Management) solution, created an AI-based policy generation tool and chat-based troubleshooting and interaction platform.

PROJECTS

Cryptonext - AI Powered Crypto News Analyzer (<i>Python, Langchain, Groq API, Pandas</i>)	Aug 2024
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Description:

- Developed an agent-based Cryptocurrency Sentiment tracker to enhance cryptocurrency market analysis based on real-time news and market data from sources related to the top 50 cryptocurrencies of various ecosystems.
- Integrated agent functions and tool-calling to create diverse cryptocurrency portfolios and Analytic Reports.

MedLLaMa - LLaMA2 Based Finetuned LLM (<i>Python, Pytorch, Huggingface</i>)	Nov 2023 - Jan 2024
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Description:

- Developed a fine-tuned LLM for medical consultation and diagnosis as a solo project. Trained on a Doctor-Patient Interactions dataset with 105,000 records, improving model accuracy in parsing medical terminology.
- Leveraged TinyLlama 1.1B, based on LLaMA 2. Fine-tuned with PEFT and QLoRA libraries and received over 300 downloads.

Road Fault Detector using YOLOv5 Object Detection Model (<i>Python, Ultralytics, YOLOv5</i>)	Aug 2023
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Description:

- Designed an advanced road fault detection system using the YOLOv5 object detection model, aimed at identifying and classifying 6 different types of road faults, including cracks, potholes, and surface degradation.
- Integrated and preprocessed data from three publicly available road fault datasets, achieving a accuracy of 91%,

SKILLS

Languages: Python, SQL, Javascript

Frameworks: FastAPI, Tensorflow, Pytorch, Langchain.

Developer Tools: Docker, Google Cloud, Linux, Git

RESPONSIBILITIES/ACHIEVEMENTS

- Technical Team Lead, Data Science Club
- Received Letter of Recommendation for Participation in Omdena VIT Bhopal Local Chapter
- Reached 300+ downloads on Medllama.
- Hacktoberfest 2023 Hall of Famer