MAGARE DRONESH MAHENDRA
Email : dmm12042002@gmail.com | Phone : +919373956911
INDU. ENGG. INDU. ENGG. & MANG. (M.Tech Dual 5Y)
LinkedIn : https://www.linkedin.com/in/dronesh-magare-723191247/
GitHub : https://github.com/Dronesh77

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2026	M.TECH Dual Degree 5Y	IIT Kharagpur	9.18 / 10
2020	Higher Secondary Certificate	Arts, Science and Commerce College, Chopda	72%
2018	Secondary School Certificate	Clara English Medium School, Chopda	92.8%

INTERNSHIPS

Research Intern | Indian Institute of Management Bangalore | [https://tumkur-report.web.app/]   **[Apr' 23 - Jun' 23]**
- Developed data extraction pipeline using **Selenium** and **BeautifulSoup** for the Jal Jeevan Mission (JJM), a government website
- Conducted village-level **geospatial analysis** of Tumkur, Karnataka, using **GeoPandas** for geocoding and covering **2,972 villages**
- Designed a responsive report using **HTML**, **JavaScript** and **CSS** on water quality, quantity and tap connection of Tumkur region
- Implemented **Geographic Information Systems (GIS)**, achieving **92%** water compliance and minimizing response times by **30%**

Data Analyst Intern | Calibr | [https://github.com/Dronesh77/CareerNet]   **[May' 23 - Jun'23]**
- Implemented **SpaCy** and **Gensim** to boost text analysis speed and accuracy by **25%**, advancing the topic modelling capabilities
- Utilized a custom curated database of **5000+** keywords for the career domain analysis, optimizing with the **Pandas Dataframe**
- Achieved a substantial **30%** reduction in the processing time and improved time responsiveness using **multiprocessing** module
- Designed iterative wireframes for **psychometric test** solutions, improving overall usability by **60%** based on the user feedback

AI Practices Intern | Affine Pvt. Ltd. | [https://github.com/Dronesh77/AudioAI-Transcriber]   **[May' 24 - July'24]**
- Integrated **OpenAI's DALL-E** model API into image processing workflow, achieving a **95%** accuracy in text-to-image generation
- Developed a robust audio recording system using **pydub** (AudioSegment Library) and the **ipywidgets** for the enhanced control
- Incorporated the **OpenAI's Whisper** model for accurate audio-to-text transcription, resulting in increased system functionality
- Improved **AI-chatbot** performance using **Natural Language Processing (NLP)** algorithms, getting a **Customer Effort Score** of **2**

PROJECTS

Blockchain Mango Supply Chain| IIT Kharagpur | [https://github.com/Dronesh77/Blockchain-Supply-Chain.git]   **[Mar' 24]**
- Employed **Ethereum** blockchain for decentralized product, supply chain, shipment track, and metadata management solution
- Integrated **IoT devices** with blockchain systems to enable **real-time tracking** of goods and reducing delays in the supply chain
- Deployed **Hyperledger Fabric** smart contracts enabling **30%** effective cost reduction through asset management automations
- Engineered an advanced Inventory Management System, utilizing **Docker** Containers for the smooth deployment across cloud

Data Security Centinal | Self Project | [https://github.com/Dronesh77/Data-Security-Sentinel.git]   **[Nov' 24]**
- Developed a **C++ application** to monitor **clipboard** preventing unauthorized file operations within a restricted root directories
- Implemented clipboard monitoring using **Windows APIs (Windows.h, AclAPI.h)** to detect and clear restricted directory paths
- Constructed a solution with **cross-platform compatibility**, comprising robust code debugging and error-handling mechanisms
- Configured security mechanism to restrict file access with directory protection policies using an advanced **ACL configurations**

COMPETITION/CONFERENCE

- Attended the prestigious **HPAIR Asia Conference 2023** in **Hong Kong**, focused on the "Architects of Asia: Building Tomorrow"
- Integral member of a **Gold-winning** team at **Open IIT Data Analytics** Championship, highlighting the strong data analysis skills
- Attained a current and peak rating of **1428** on **CodeChef**, in C++ language the esteemed competitive programming platform

SKILLS AND EXPERTISE

Programming Languages and Softwares : Python | C++ | R | solidity | Go | Git | Cplex | SQL | html | javascript | C | Vensim
Frameworks : DALL-E | OpenAI GPT | PyTorch | Keras | TensorFlow | Whisper | Flask | GitLab | Powershell | Streamlit | Bash
Libraries : GeoPandas | Selenium | BeautifulSoup | NLTK | scikit-learn | Pandas | NumPy | Plotly | matplotlib | Seaborn | NLP

COURSEWORK INFORMATION

Computer Science : Application of Machine Learning Techniques in Biological Systems | Programming and Data Structures
Statistical Science : Probability and Statistics | Statistical Learning | Simulation | Operations Research | Engineering Economy
Supply Chain : Supply Chain Management | Management of Inventory Systems | Quality, Design and Control | Economics

POSITIONS OF RESPONSIBILITY

Core Organising Team Member| Spring Fest, IIT Kharagpur   **[Aug' 22 - Jun' 23]**
- Directed high-yield sponsorship drives in the Mumbai and Pune region, raising over **INR 4.1 Lakhs** with a **44%** growth increase
- Co-led a team of **46** core associate members, expanding the fest outreach to **850+ colleges** and publishing **250+ media articles**
- Widened the reach of the fest through International Carnivals and Indie Carnivals, inviting artists from more than **15 countries**
- Conducted nationwide prelim in the Bhubaneswar region, achieving a **150%** growth in registrations with over **900** participants

EXTRA CURRICULAR ACTIVITIES

- Member of **Silver-winning** team in the Illumination Championship at Pt. Madan Mohan Malaviya Hall of Residence in year 2022
- Promoted the **Pukaar social campaign**, passionately advocating for child nutrition equality, feeding over **3500** children in need