

MUSKAN SINDHU

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[LinkedIn](#) [GitHub](#) [Leetcode](#) [Portfolio](#)

EDUCATION

Indian Institute of Technology, Madras
Bachelor of Science in Data Science and Applications

Tamil Nadu, IN
2021 – 2025

Kalindi College, Delhi University
Bachelor of Vocation in Web Designing

Delhi, IN
2019 – 2022

EXPERIENCE

TAOlie.ai Decentralized Compute Marketplace

July 2024 – Aug. 2025

Software Developer

- Built an in-house solution with internal **GraphQL** APIs to extract over **1M records/hour** from Twitter and Reddit.
- Optimized and parallelized data pipelines using **batching** and **indexing**, reducing external API **costs** by **90%**.
- Leveraged **prompt engineering** with OpenAI API to refine miner responses, **boosting** miner's **Bittensor ranking**.
- Developed a self-hosted **Prometheus–Grafana** dashboard for **real-time** miner performance **monitoring**.

Deepgaze Technologies

July 2023 – Sep. 2023

Backend Engineer (Intern)

- Developed **APIs** for **Tensorflow LSTM** Machine Learning Models and for integrating DB with React UI using **Flask**.
- Prototyped **deepfake image** source detector by integrating the **TinEye API** and implementing the **DeSI** algorithm.
- Contributed to data **pre-processing** for model training and **RLHF** process using libraries like **Pandas** and **CSV**.

PROJECTS

Clipnote | *Flask, JavaScript, Chrome Extension API, Gemini AI, PostgresSQL, Apify, Docker*

[Link](#) | [Source Code](#)

- Built a **Chrome extension** enabling users to take **timestamped** notes (user or AI-generated) for **YouTube** videos.
- Developed Flask **backend** APIs, styled the UI with HTML/CSS, and deployed via **Docker** on an **EC2** instance.
- Configured **AWS S3** for storing video transcripts to enable AI notes and **optimize** transcript **API call** frequency.

Trackcrow | *Express.js, Next.js, PostgreSQL, Docker*

[Link](#) | [Source Code](#)

- Developed a web app for **tracking** transactions, featuring expense **categorization** and **automated** suggestions.
- Implemented an **AI chatbot** using the **Vercel AI SDK** to answer user queries on spending and analytics.
- Added MacroDroid and Shortcuts for **mobile automation**; processed **500+** transactions totaling **1M+ INR**.

DotMd | *Flask, React, GitHub REST API, Docker, Cloudflare Tunnel*

[Link](#) | [Source Code](#)

- Developed a **responsive markdown editor** with predefined sections, **live preview**, and **download** capability.
- Integrated **LLM** to generate **section** content from **user prompts**, enhancing document creation speed and quality.
- Implemented AI-powered README generation from **Github URLs** with **Pydantic**-based automated **formatting**.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML/CSS

Databases: PostgreSQL, SQLite, MongoDB, Supabase

Libraries: Flask, Express, BeautifulSoup, Pandas, Selenium, Bittensor, Whisper, Playwright, Pydantic, Boto3, React

Tools: Git/Github, Docker, Google Cloud Platform, Amazon Web Services, Postman, Figma, Photoshop

CERTIFICATIONS

- IIT Madras: Diploma Level (Data Science and Programming)
- NSQF Level 4 - Junior Software Developer, NSQF Level 5 - Web Developer, NSQF Level 7 - Software Developer

EXTRACURRICULAR

- Mentored **Trikon2.0 Hackathon** by **Intellia AI/ML Society** at Meerut Institute of Engineering and Technology
- Solved 100+ questions on **GeeksforGeeks** and also received 5 Star Rating in Python on **HackerRank**
- **Group Leader** for Bandipur House - IIT Madras; coordinated inter-house events and led team operations.
- **Design Team Member** for Bandipur House, IIT Madras — created **visual content** and managed event **branding**.
- **Graphic Designer, Enactus**, Kalindi College — created posts and materials for **Nationals 2020** (semi-finalist).