Snigdha Singh

B.TECH IN CSE WITH AI&ML | +918966900424 | **Linkedin** | **mitsnigdha57@gmail.com** | **Github** | **Portfolio & Blog**

Aspiring AI/ML Engineer with hands-on experience in **NLP, LLMs, DL, and API Development**. Passionate about building scalable AI solutions, optimizing ML models, and delivering **data-driven applications** with measurable impact. Adept at integrating AI models into production environments and improving performance efficiency.

EDUCATION

Vellore Institute of Technology	**Bhopal, Madhya Pradesh**
Bachelor's Degree in Computer Science Engineering. GPA: 8.25	*09/2022 – Present*
Krishna Public School	**Raipur, Chhattisgarh**
Central Board of Secondary Education HSC. Percentage: 88.9%	*06/2020 –07/2021*
Delhi Public School	**Raipur, Chhattisgarh**
Central Board of Secondary Education SSC. Percentage: 87.9%	*06/2018 – 05/2019*

WORK EXPERIENCE

DataLytics	**Raipur, Chhattisgarh**
AI/ML Intern	*07/2024 – 01/2025*

- Developed and deployed AI/ML models for real-time applications, enhancing data-driven solutions.
- Engineered feature transformations, improving model efficiency by **15%**.
- Conducted rigorous testing and validation to ensure high reliability and scalability.
- Collaborated with senior engineers to integrate AI models into production environments.

PROJECTS

Retrieval-Augmented AI Chatbot (VJV School) | Sole Developer   12/2024 - 01/2025

- Built an AI chatbot leveraging **LLMs** to answer school queries with **90% accuracy**.
- Designed a structured fee extraction module, reducing manual effort by **50%**.
- Integrated **REST APIs** for real-time data retrieval, enhancing response accuracy.
- **Technologies:** Python, Flask, NLP, OpenAI API, BeautifulSoup, Torch, REST API.

AI-powered Accounting Data Parser | Sole Developer   09/2024 - 10/2024

- Created a **Flask-based API** to extract structured accounting data from natural language inputs.
- Achieved **95% extraction accuracy**, improving workflow efficiency by **40%**.
- Automated discount calculations, currency handling, and transaction categorization.
- **Technologies:** Python, Flask, NLP, REST API, JSON.

Virtual Health Assistant | Sole Developer   07/2024 - 08/2024

- Developed an NLP-powered **medical query assistant**, improving response relevance by **35%**.
- Integrated **Google Custom Search API** for real-time information retrieval.
- Features: Medical relevance detection, query similarity search, summarization, negation handling.
- **Technologies:** Python, Flask, NLP, LLM, RESTful API, Google Custom Search API.

CERTIFICATIONS

- WorldQuant Challenge – Silver Level (Selected for Stage 2 of the IQC 2025)   05/2025
- Computer Vision (Vityarthi)   12/2024
- Applied Machine Learning in Python University Of Michigan (Coursera)   12/2023
- Privacy and Security in Online Social Media (NPTEL)   04/2024

TECHNICAL SKILLS

- Programming Languages: Python, Java, C++
- Frameworks & Libraries: TensorFlow, PyTorch, Scikit learn, OpenCV
- Data Analysis Tools: Pandas, NumPy, Matplotlib
- Machine Learning & AI: DL, Model Optimization & training, Data preprocessing, NLP, CV
- Web Development: Flask, HTML/CSS, JavaScript
- Other tools: SQL, RESTful API Development, LangChain, Vector Databases (FAISS), LLMs, Flask, NLP, Speech-to-Text Systems