

# Snigdha Singh

B.TECH IN CSE WITH AI&ML | +918966900424 | [Linkedin](#) | [mitsnigdha57@gmail.com](mailto: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

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

## WORK EXPERIENCE

<b>DataLytics</b> <i>AI/ML Intern</i>	<b>Raipur, Chhattisgarh</b> 07/2024 – 01/2025
<ul style="list-style-type: none"><li>Developed and deployed AI/ML models for real-time applications, enhancing data-driven solutions.</li><li>Engineered feature transformations, improving model efficiency by <b>15%</b>.</li><li>Conducted rigorous testing and validation to ensure high reliability and scalability.</li><li>Collaborated with senior engineers to integrate AI models into production environments.</li></ul>	

## PROJECTS

<b>Retrieval-Augmented AI Chatbot (VJV School)   Sole Developer</b>	12/2024 - 01/2025
<ul style="list-style-type: none"><li>Built an AI chatbot leveraging <b>LLMs</b> to answer school queries with <b>90% accuracy</b>.</li><li>Designed a structured fee extraction module, reducing manual effort by <b>50%</b>.</li><li>Integrated <b>REST APIs</b> for real-time data retrieval, enhancing response accuracy.</li><li><b>Technologies:</b> Python, Flask, NLP, OpenAI API, BeautifulSoup, Torch, REST API.</li></ul>	
<b>AI-powered Accounting Data Parser   Sole Developer</b>	09/2024 - 10/2024
<ul style="list-style-type: none"><li>Created a <b>Flask-based API</b> to extract structured accounting data from natural language inputs.</li><li>Achieved <b>95% extraction accuracy</b>, improving workflow efficiency by <b>40%</b>.</li><li>Automated discount calculations, currency handling, and transaction categorization.</li><li><b>Technologies:</b> Python, Flask, NLP, REST API, JSON.</li></ul>	
<b>Virtual Health Assistant   Sole Developer</b>	07/2024 - 08/2024
<ul style="list-style-type: none"><li>Developed an NLP-powered <b>medical query assistant</b>, improving response relevance by <b>35%</b>.</li><li>Integrated <b>Google Custom Search API</b> for real-time information retrieval.</li><li>Features: Medical relevance detection, query similarity search, summarization, negation handling.</li><li><b>Technologies:</b> Python, Flask, NLP, LLM, RESTful API, Google Custom Search API.</li></ul>	

## 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, Linux (CLI, file systems, permissions, package management)