

# Suraj Jaiswal

Data Analyst & NLP Engineer  
linkedin.com/in/surajjaiswal007

Email : jaiswalsuraj487@gmail.com

Mobile : +91 7878189018

Portfolio: jaiswalsuraj487.github.io

## SUMMARY

Data Analyst at **Tiger Analytics** with **3+ years of experience** (industry + research) delivering impactful ML solutions. Actively contribute to **ML research and publications** in top conferences (**NeurIPS** and **ACM**). Beyond work, I pursue a healthy lifestyle through yoga, surfing, traveling to new places, and badminton.

## EDUCATION

• Indian Institute of Technology Gandhinagar (IIT)	Masters in Computer Science Engg	2022 – 2024
• Gujarat Technological University	Bachelors in Computer Science Engg	2018 – 2022

## EXPERIENCE

• Data Analyst — Tiger Analytics	Dec 2024 – Present
◦ Multi-agent AI interview orchestrator:	Architected using LangChain + LangGraph to execute routing, phase-specific question generation, and response evaluation dynamically to the job description for the role
◦ Built an async <b>FastAPI + WebSocket</b> backend supporting real-time multi-phase interviews with guardrails	
◦ GenAI Bill-of-Materials automation for lighting parts:	Designed and deployed a pipeline using AWS Bedrock, MLflow, and Docker, reducing manual generation time by 80% through structured extraction
◦ LLM-based code evaluator:	Built using OpenAI API, prompt engineering, and multi-threaded Streamlit UI for parallel execution, improving throughput by 3× and reducing manual review time by 90%
◦ Discrete choice modeling:	Engineered an end-to-end framework using xLogit and Pandas to analyze 1.8K+ traveler preferences via Multinomial Logit (MNL) models and behavioral analytics
◦ Created interpretable marginals, utility, and demand estimation workflows to measure choice sensitivities and substitution probabilities under different scenario conditions on wide-to-long data	
• NLP Engineer — NeuroReef Labs	Oct 2023 – Oct 2024
◦ AI copilot for medical note-taking:	Developed using OpenAI LLMs fine-tuned on clinical guidelines
◦ Built RAG system to autogenerate ICD-10, CPT, SNOMED, and HCC codes for medical billing of patient visits	
◦ Medical chatbot:	Implemented using <b>HyDE + RAG</b> over <b>Athena EHR</b> data to deliver insights
◦ Applied few-shot prompt tuning	for medical guideline-consistent and domain-aligned LLM outputs
• Researcher — IIT Gandhinagar	July 2022 – Oct 2023
◦ Space to Policy: Scalable Brick Kiln Detection and Automatic Compliance Monitoring with Geospatial Data (link)	Accepted at <b>ACM Journal on Computing and Sustainable Societies</b>
◦ Eye in Sky: Detection and Compliance Monitoring of Brick Kilns using Satellite Imagery (link)	Accepted at <b>ACM Compass on Computing and Sustainable Societies poster track</b>
◦ Towards Scalable Identification of Brick Kilns from Satellite Imagery with Active Learning (link)	Accepted at <b>NeurIPS Active Learning in the Real World</b>
Developed a scalable <b>YOLO-OBB-based deep learning pipeline</b> to detect and classify <b>30,000+ brick kilns</b> across 5 Indian states using satellite imagery to achieve <b>82% precision</b> over 520,000 km <sup>2</sup> of coverage	

## SKILLS

- Programming Languages: Python, SQL, C
- Libraries: LangChain, LangGraph, FastAPI, YOLO, PyTorch, TensorFlow, Scikit, NumPy, Pandas, Matplotlib
- Tools & Cloud: AWS (S3, EC2, Bedrock, ECR), Boto3, Docker, Hugging Face, Streamlit, Git, VS Code, Excel

## ACHIEVEMENTS

- Won "AI Engine for Google Drive" Hackathon, ThirdAI Corp
- GATE Computer Science – Secured **97th percentile** in the Graduate Aptitude Test in Engineering