

Utkarsh Sinha

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EDUCATION

KJ Somaiya Institute of Technology

Bachelor of Technology in Artificial Intelligence and Data Science, Minor in Blockchain

9.07 CGPA

June 2024

EXPERIENCE

Machine Learning Intern at Feynn Labs

Feb 2025 – April 2025

- Designed an AI-powered commute optimization model using ML for smart routing and B2B service integration.
- Performed market segmentation of India's EV sector using clustering and PCA for target market analysis.
- Developed a web-based AI tool for pest detection and crop monitoring with financial modeling for small farmers.

Full Stack Developer Intern at Meta Craftlab

June 2024 – July 2024

Mumbai

- Gained expertise in Git, GitHub, and GitOps, mastering version control and CI/CD fundamentals
- Contributed to the development of a webhook server, collaborating with a team to deliver robust backend functionality.
- Utilized SvelteKit and Tailwind CSS to build and style a scalable, efficient application interface.

Full Stack Developer Intern at Ahansat Solutions

Sep. 2023 – Oct. 2023

Mumbai

- Led a team in developing the "Developer Star Project", creating a free, open-source developer toolkit aimed at enhancing productivity and accessibility for programmers.
- Developed and optimized the String Utility Module, ensuring high performance and usability in the toolkit.
- Implemented SvelteKit, Tailwind CSS, and Prisma to deliver a scalable and efficient full-stack solution.

PROJECTS

Swiggy Data End to End Engineering Pipeline | *Snowflake, SQL, PostgreSQL, Python*

May 2025

- Developed an end-to-end data pipeline on Snowflake, including staging, cleansing, and consumption layers for structured analytics.
- Designed and implemented fact and dimension tables using star schema to support efficient BI reporting and SQL querying.
- Applied Snowflake features like COPY command, internal stages, and dynamic data masking for secure and scalable data ingestion.
- Built an interactive KPI dashboard using Streamlit to visualize order trends, revenue metrics, and customer behavior in real time.

Fraud Detection | *SQL, PostgreSQL, Python, Pandas, Plotly Express, SQLAlchemy*

Dec 2024

- Designed a relational database schema to store and manage financial transaction data efficiently.
- Developed and optimized complex SQL queries to identify anomalous and fraudulent transactions..
- Applied statistical techniques like Standard Deviation and IQR to detect outliers in transaction data.
- Created interactive visualizations using Plotly and HvPlot to communicate fraud detection insights.

AI-Based Interactive Application | *Java, JavaScript, Spring Framework, SpringAi, OpenAI, React*

Nov 2024

- Developed an AI-based interactive application using Java, Spring Boot for backend services, and React.js with CSS for an intuitive front-end interface.
- Integrated OpenAI API via Spring Framework to enable dynamic functionalities such as chatbot interactions, stock image generation, and recipe recommendations.
- Designed robust API communication workflows, ensuring efficient data processing and real-time responses.
- Developed a scalable full-stack solution, combining machine learning capabilities with modern web technologies.

AI-Driven Music Remixing | *Python, GAN, Random Forest, Keras, Django*

July 2023 – May 2024

- Built an AI-driven music remixing platform leveraging GANs and deep learning to automate and enhance creative music production.
- Utilized Python, TensorFlow, Streamlit, and MIR techniques for model development and music analysis.
- Designed a user-friendly interface and ensured seamless integration with digital audio workstations.
- Delivered a scalable system producing high-quality remixes, published in a peer-reviewed conference.

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R, Solidity
Frameworks: React, Node.js, Flask, Django, Svelte, WordPress, Material-UI, FastAPI
Developer Tools: Git, TravisCI, Power BI, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib, Hugging Face

CERTIFICATES

IBM Data Science Professional (*Certificate*)
IBM Data Analyst (*Certificate*)
Google Cloud Database Engineer (*Certificate*)
Excel Skills for Data Analytics and Visualization (*Certificate*)
Advanced Power BI Data Analyst (*Certificate*)
NPTEL's Python for Data Science (*Certificate*)
R Programming for Data Science (*Certificate*)
AWS Cloud foundation (*Certificate*)
Complete Full Stack Web Development (*Certificate*)