

Nitesh Kumar

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A skilled data scientist adept in Python and AI tools, constantly learning and driving impactful business and product improvements.

Experience

Lead School, - Advanced Analytics Lead

Dec 2024 - Current

- Spearheaded scalable demand planning for **1.2 million** students across 8 subjects amounting to **₹1.9 billion**, delivering a forecasting tool and **material-level visibility platform** that empowered SCM with data-led procurement, enabled inter-location inventory transfer logic, and drove significant cost savings through optimized stocking and reduced overordering.
- Engineered innovative "Book Scanner" feature for student app (PASA), enabling **150,000+** MAUs' to digitize physical textbooks and access interactive learning modules. Leveraged combined image + text vector search technology to deliver real-time digital copies, personalized assessments, and AR visualizations, increasing student engagement and reducing content creation costs

Lead School, - Data Scientist

Nov 2023 - Dec 2024

- Developed and deployed Generative AI solution making tailored lesson plan for **1.5 million** students. This includes extensive re-source mining and agents framework
- Used **RAG with AI agents** for making question papers aligned to syllabus to solve paper leaks
- Analytical Dashboard, reducing **95%** operationalisation ad-hock requests after Signup.
- Lead Generation by scraping multi sites with a **segmentation framework**. Approximately **2.5 million** schools database with more than 80 data-points
- Product Implementation framework resulting in logo retention from **64% to 75%**

Lead School, - Product Analyst

Dec 2021 - Nov 2023

- Genetic Algorithm based timetable generation accommodating multiple constraints.. Saved around **400hrs** effort
- **Marks Entry** using an in house solution as a replacement of AWS-Textextract increasing the accuracy from **52% to 85%** and reducing cost by **95%**
- **Automatic Evaluation** of students worksheets using image homography matrix and NLP

Tredence Analytics, - Analyst

Dec 2020 - Dec 2021

- **Investment Optimization** for marketing channels using Differential Evolution with multi-Objective functions for sales,profit and ROI
- **Sponsorship** returns projection for channels such as EPL, NHL , Messi etc. Using **Volume decomposition** and Impressions regularization of channels

Education

7.8/10 **Btech(hons.) in Metallurgical and Material Science**, National Institute of Technology

2016-20

93/100 **Sri Chaitaniya Vishakapatnam**, Science

2013-15

Skills

Programming Python, C/C++, C#, embedded C,CUDA, CMake, Matlab, Git, Scripting (Bash), LaTeX, HTML, Vim

Data Science Generative AI, Pytorch , Tensorflow , Gradio

Dashboards Tableau , Power Bi , Looker Studio , Excel , Gradio

Soft Skills Time Management, Problem-solving, Documentation, Engaging Presentation, Leadership, On-site coordination.

Life Beyond Work

Beer Buddy Brainstormer

- At my best when brainstorming over a cold brew, turning casual conversations into innovative solutions.
- Enjoy breaking free from conventional approaches in relaxed settings, where my best problem-solving ideas naturally emerge.

Gaming Strategist

- Strategic gamer who thrives in team-based environments, from tabletop classics like Catan to competitive MOBAs such as Dota 2 and Mobile Legends.
- Apply the same tactical thinking, team coordination, and adaptive decision-making from gaming to professional challenges and collaborative projects.

Anime Aficionado

- Drawn to complex anime narratives that balance emotion, logic, and action—favorites include Vinland Saga, Attack on Titan, Naruto, and One Punch Man.
- Appreciate masterful storytelling with nail-biting action sequences that reveal deeper themes about human nature, resilience, and ethical dilemmas.

Secret House Husband Chef

- Transform into a kitchen commander on weekends, experimenting with new recipes despite my wife's playful protests.
- Passionate culinary explorer who believes food is more than sustenance—it's an adventure worth pursuing, one dish at a time.