

KSHITIJ SURENDRA PANCHAL

[Kshitij Panchal](#) | 8291348147 | kshitij.panchal043@nmims.in

EDUCATION

Master of Data Science	2024 - 2026
Nilkamal School of Mathematics, Applied Statistics and Analytics, SVKM's NMIMS, Mumbai	CGPA 8.0 /10
Bachelor of Science in Mathematics	2021 - 2024
Wilson College	CGPA 7.40 /10
Higher Secondary - 12th	February 2020
Wilson College	Percentage- 54.74%
Secondary School- 10th	March 2018
St Xavier's High School	Percentage- 73.80%

PROJECTS

Qwen-Based Multimodal RAG System for PDF and DOC Analysis	Oct 2025 – Nov 2025
<ul style="list-style-type: none">Developed an AI-powered RAG system for document Q&A using Qwen2.5-VL, Doclinc, and ChromaDB.Enabled text–image understanding with 92% retrieval precision via hybrid MiniLM-L6-v2 embeddings.Built a Streamlit UI for interactive query responses with contextual citations.	
NETRAI- Road Accident Detection and Severity Analysis using Deep Learning	Dec 2024 – Apr 2025
<ul style="list-style-type: none">Developed a real-time road accident detection system using YOLOv12 for CCTV footage analysis, achieving 83.3% F1- Score and 0.76 mean IoU, outperforming YOLOv11 and Faster R-CNN in live detection accuracy.Integrated severity analysis with Gemini 2 Flash and stored annotated accident data in Firebase for immediate access.	
Book Recomendation System	Jan 2025-Feb 2025
<ul style="list-style-type: none">Engineered a collaborative filtering model using 270K+ ratings; achieved RMSE of 0.89.Deployed model using AWS SageMaker, CodePipeline, and Elastic Beanstalk for CI/CD.Tackled cold-start issues with a hybrid content-based fallback system.Ensured scalability and robustness by storing models and data on AWS S3	
Currency Exchange Rate Forecasting using Advanced Time Series Models	Nov 2024-Dec 2024
<ul style="list-style-type: none">Developed a comprehensive currency forecasting pipeline for EUR/INR, achieving a 2.59% MAPE with a Prophet model.Modeled market volatility using GARCH/EGARCH (achieving a best AIC score of 921.1) and analyzed inter-currency dependencies with VAR to provide actionable insights for risk management and trading strategies.	
OLIST E-Commerce Analytics	Aug 2024-Sept 2024
<ul style="list-style-type: none">Built interactive dashboards in Power BI and Tableau to visualize sales trends, customer behavior, and product performance.Applied advanced analytics and KPIs to uncover insights on customer retention and profitability, aiding strategic decisions.Enabled real-time performance monitoring through automated data pipelines and dynamic visual storytelling.	

POSITIONS OF RESPONSIBILITY

2022-2023

- Project Coordination:** Assisted in planning and executing multiple college math events, workshops, and competitions.
- Stakeholder Management:** Collaborated with organizers and faculty to promote mathematical engagement and ensure successful event coordination.

EXTRA CURRICULAR ACTIVITIES

Interests

Trekking | Art | Travelling | Gaming & Sports

CERTIFICATIONS

Data Analyst from EXCELR link	2023-2024
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SKILLS

- Professional Skills:** Communication, Teamwork, Storytelling through Data, Problem Solving, High Attention to Detail, Project Coordination, Stakeholder Management
- Technical Skills:** Power BI, Tableau, SQL, MS Office Suite, Python, AWS