



<div>Shubhankar Rana</div> <div>MSDSM 02, IIT Ropar & IIM Amritsar MS (Data Science And Management)</div>						<div>भारतीय प्रबंध संस्थान अमृतसर</div> <div>Indian Institute of Management Amritsar</div>
ACADEMIC PROFILE						
MS	IIT Ropar & IIM Amritsar			88.00 %	Present	
Bachelor of Science	Post Graduate Government College (Panjab University)			72.10 %	2023	
Class XII	Sri Guru Harkrishan Model School (CBSE)			85.20 %	2020	
Class X	Saupin's School (CBSE)			88.20 %	2018	
SUMMER INTERNSHIP						
BharatGen				2 Months	May'25 - Jul'25	
Research Intern	<ul style="list-style-type: none">• Benchmarked complex multi-horizon forecasting models (Informer, TFT, LSTM, Mamba, ARIMA) on financial time-series data.• Developed hybrid ARIMA+LSTM models for financial and operational datasets, achieving lowest RMSE (0.65) and highest R² (0.96), outperforming both econometric and deep learning baselines in revenue-related KPIs and macroeconomic trends.• Built end-to-end data ingestion, validation, cleansing, and transformation pipelines to prepare structured financial data• Synthesized insights into formal technical documentation and stakeholder-ready reports, contributing to strategic use cases in real-time traffic forecasting and predictive maintenance planning, analogous to structured finance risk analysis environments.					
KEY PROJECTS						
AI Career Chatbot	<ul style="list-style-type: none">• Developed an AI-driven career guidance chatbot using Groq API and RAG pipelines to help students navigate AI learning paths.• Implemented logic that analysed user profiles and recommended certifications, skills, and AI roles aligned with market trends.• Engineered the application in VS Code, Git for version control, and deployed the system as an interactive Streamlit dashboard.• Designed modular components enabling efficient retrieval, response generation, and seamless conversational user experience.• Enhanced user engagement by combining fast inference (Groq) with contextual retrieval (RAG), providing real-time guidance.					2025
Knowledge Management System (KMS) Enhancement (IIT Ropar)	<ul style="list-style-type: none">• Assessed KMS cases to identify duplication, version control issues, and search gaps that hit IT support efficiency functions• Defined KMS needs for stronger metadata tagging, indexing, categorization, and governance to improve content quality• Designed an upgrade plan using SharePoint and Confluence with workflow mapping and improved structures• Result & Impact: Enhanced search accuracy, reduced outdated and duplicate content, and improved productivity for IT teams					2025
IT Service Management (ITSM) Dashboard – Incident Analysis(IIT ROPAR)	<ul style="list-style-type: none">• Analyzed ITSM and incident datasets to identify SLA issues, escalation patterns, and bottlenecks across IT daily operations.• Defined and standardized MTTR, SLA adherence, and incident trend KPIs aligned with leadership needs and industry practices.• Deployed Power BI dashboards with SQL and Excel models to deliver real-time insights on SLAs, volumes, and service health.• Used Power BI, Excel, and SQL for KPI modeling, data prep, and aggregation to support accurate, timely monitoring.					2025
Correlation Coefficient Prediction with ARIMA-LSTM	<ul style="list-style-type: none">• Developed a hybrid ARIMA-LSTM model for multihorizon forecasting, cutting RMSE by 32.4% and MAPE by 28% .• Integrated key financial metrics like close price and moving averages to improve model strength and relevance.• Applied preprocessing with cleaning, outlier control, and time alignment to ensure quality financial analytics.• Validated model performance across multiple financial indices to ensure stability and consistency of forecasts.					2025
POSITIONS OF RESPONSIBILITY						
MSDSM Placement Committee, IIM Amritsar and IIT Ropar	<ul style="list-style-type: none">• Worked with cross-functional teams to build and maintain strong relationships with 50+ corporate partners and stakeholders.• Coordinated logistics and communication for recruitment,leading to a 20% rise in engagement in key activities.• Spearheaded recruiter discussions for internship roles, showcasing strong communication and stakeholder management skills.• Researched industry and talent trends to align placement strategies with market needs and recruiter expectations.					2024
AWARDS & ACHIEVEMENTS						
Co-Curricular	• Secured AIR 347 for the UPSC NDA-145 course and was selected to train at the National Defence Academy, Khadakwasla					2020
Extra-Curricular	• Secured a scholarship from the Chandigarh Administration for exceptional performance in cricket tournament					2016
	• Secured High Commendation at RISC MUN for my contribution in discussing the SDG 2030 Agenda at UN ECOSOC					2017
	• Secured special mention in SD MUN 17 for discussing transnational organised crime in Latin America in the UNODC					2017
ADDITIONAL INFORMATION						
Certifications	<ul style="list-style-type: none">• Yale Financial Markets-Gained knowledge about the fundamentals of Finance from Noble prize-winning economist Dr Robert Shiller• Data Processing in Python-Gained insights about descriptive statistics, analytics, and AI from distinguished faculty at ISI Bangalore• Attended the International Conference on statistical learning, discussing the recent advances in the field of AI & Data Science					
Languages	• English Hindi Punjabi					
Expertise	<ul style="list-style-type: none">• Coding: Python C++ C• Database: SQL PL-SQL PostgreSQL• Data Analysis: Pandas Matplotlib Seaborn BeatifulSoup PandasProfiler Plotly• Data Visualization: Power BI MS Excel(Advanced) Tableau• Teamwork Leadership Critical Thinking Analytical Thinking• AI/ML: Machine Learning Statistical Analysis Deep Learning Keras Tesnorflow ScikitLearn Pytorch					
Hobbies	<ul style="list-style-type: none">• Reading• Football• Sudoku					