

## 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"> <li><b>Benchmarked complex</b> multi-horizon forecasting models (Informer, TFT, LSTM, Mamba, ARIMA) on financial time-series data.</li> <li><b>Developed</b> hybrid ARIMA+LSTM models for financial and operational datasets, achieving <b>lowest RMSE (0.65)</b> and <b>highest R<sup>2</sup> (0.96)</b>, outperforming both econometric and deep learning baselines in <b>revenue-related KPIs</b> and macroeconomic trends.</li> <li>Built end-to-end data ingestion, validation, cleansing, and transformation pipelines to prepare structured financial data</li> <li><b>Synthesized</b> insights into formal <b>technical documentation and stakeholder-ready reports</b>, contributing to strategic use cases in <b>real-time traffic forecasting and predictive maintenance planning</b>, analogous to structured finance risk analysis environments.</li> </ul>		

## KEY PROJECTS

AI Career Chatbot	<ul style="list-style-type: none"> <li><b>Developed</b> an AI-driven career guidance chatbot using Groq API and RAG pipelines to help students navigate AI learning paths.</li> <li><b>Implemented</b> logic that analysed user profiles and recommended certifications, skills, and AI roles aligned with market trends.</li> <li><b>Engineered</b> the application in VS Code, Git for version control, and deployed the system as an interactive Streamlit dashboard.</li> <li><b>Designed</b> modular components enabling efficient retrieval, response generation, and seamless conversational user experience.</li> <li><b>Enhanced</b> user engagement by combining fast inference (Groq) with contextual retrieval (RAG), providing real-time guidance.</li> </ul>	2025
Knowledge Management System (KMS) Enhancement (IIT Ropar)	<ul style="list-style-type: none"> <li><b>Assessed</b> KMS cases to identify duplication, version control issues, and search gaps that hit IT support efficiency functions</li> <li><b>Defined</b> KMS needs for stronger metadata tagging, indexing, categorization, and governance to improve content quality</li> <li><b>Designed</b> an upgrade plan using SharePoint and Confluence with workflow mapping and improved structures</li> <li><b>Result &amp; Impact:</b> Enhanced search accuracy, reduced outdated and duplicate content, and improved productivity for IT teams</li> </ul>	2025
IT Service Management (ITSM) Dashboard – Incident Analysis(IIT ROPAR)	<ul style="list-style-type: none"> <li><b>Analyzed</b> ITSM and incident datasets to identify SLA issues, escalation patterns, and bottlenecks across IT daily operations.</li> <li><b>Defined</b> and standardized MTTR, SLA adherence, and incident trend KPIs aligned with leadership needs and industry practices.</li> <li><b>Deployed</b> Power BI dashboards with SQL and Excel models to deliver real-time insights on SLAs, volumes, and service health.</li> <li><b>Used Power BI, Excel, and SQL</b> for KPI modeling, data prep, and aggregation to support accurate, timely monitoring.</li> </ul>	2025
Correlation Coefficient Prediction with ARIMA-LSTM	<ul style="list-style-type: none"> <li><b>Developed</b> a hybrid ARIMA-LSTM model for multihorizon forecasting, cutting RMSE by 32.4% and MAPE by 28% .</li> <li><b>Integrated key</b> financial metrics like close price and moving averages to improve model strength and relevance.</li> <li><b>Applied</b> preprocessing with cleaning, outlier control, and time alignment to ensure quality financial analytics.</li> <li><b>Validated</b> model performance across multiple financial indices to ensure stability and consistency of forecasts.</li> </ul>	2025

## POSITIONS OF RESPONSIBILITY

MSDSM Placement Committee, IIM Amritsar and IIT Ropar	<ul style="list-style-type: none"> <li><b>Worked</b> with cross-functional teams to build and maintain strong relationships with 50+ corporate partners and stakeholders.</li> <li><b>Coordinated</b> logistics and communication for recruitment, leading to a 20% rise in engagement in key activities.</li> <li><b>Spearheaded</b> recruiter discussions for internship roles, showcasing strong communication and stakeholder management skills.</li> <li><b>Researched</b> industry and talent trends to align placement strategies with market needs and recruiter expectations.</li> </ul>	2024
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## AWARDS &amp; ACHIEVEMENTS

Co-Curricular	<ul style="list-style-type: none"> <li><b>Secured AIR 347</b> for the <b>UPSC NDA-145</b> course and was selected to train at the National Defence Academy, Khadakwasla</li> </ul>	2020
Extra-Curricular	<ul style="list-style-type: none"> <li><b>Secured a scholarship</b> from the Chandigarh Administration for exceptional performance in cricket tournament</li> <li><b>Secured High Commendation</b> at RISCMUN for my contribution in discussing the SDG 2030 Agenda at UN ECOSOC</li> <li><b>Secured</b> special mention in SDMUN 17 for discussing transnational organised crime in Latin America in the UNODC</li> </ul>	2017

## ADDITIONAL INFORMATION

Certifications	<ul style="list-style-type: none"> <li><b>Yale Financial Markets</b>-Gained knowledge about the fundamentals of Finance from <b>Noble prize-winning economist Dr Robert Shiller</b></li> <li><b>Data Processing in Python</b>-Gained insights about descriptive statistics, analytics, and AI from distinguished faculty at <b>ISI Bangalore</b></li> <li><b>Attended the International Conference on statistical learning</b>, discussing the <b>recent advances in the field of AI &amp; Data Science</b></li> </ul>
Languages	<ul style="list-style-type: none"> <li>English   Hindi   Punjabi</li> </ul>
Expertise	<ul style="list-style-type: none"> <li>Coding: Python   C++   C</li> <li>Database: SQL   PL-SQL   PostgreSQL</li> <li>Data Analysis: Pandas   Matplotlib   Seaborn   BeautifulSoup   PandasProfiler   Plotly</li> <li>Data Visualization: Power BI   MS Excel(Advanced)   Tableau</li> <li>Teamwork   Leadership   Critical Thinking   Analytical Thinking</li> <li>AI/ML: Machine Learning   Statistical Analysis   Deep Learning   Keras   Tensorflow   ScikitLearn   Pytorch</li> </ul>
Hobbies	<ul style="list-style-type: none"> <li>Reading</li> <li>Football</li> <li>Sudoku</li> </ul>