

EDUCATION

- Master of Science in Data Science 2024–2026
Manipal Academy of Higher Education, Karnataka
- Bachelor of Science in Computer Science, Statistics, and Mathematics 2021–2024
Chandigarh University, Mohali

TECHNICAL SKILLS

Languages: Python, SQL
Machine Learning & AI: PyTorch, TensorFlow, scikit-learn, model building & evaluation, predictive analytics, algorithmic solutions
NLP / GenAI: spaCy, Hugging Face Transformers, LLM APIs (OpenAI/Gemini)
Data Engineering & Viz: ETL pipelines, data transformation, EDA, Power BI, Excel, data storytelling
Cloud / Dev: AWS (S3, Athena, Redshift, SageMaker), Git, Streamlit deployment, Jupyter Notebook

EXPERIENCE

- Data Science Intern Oct 2023 – Nov 2023 Remote
CodeClause
 - Built reusable Python workflows applying cutting-edge data processing techniques; demonstrated hands-on, growth mindset in tackling real-world data challenges.
 - Developed algorithmic solutions for data transformation and EDA; took ownership of technical implementations delivering stakeholder-ready insights.
 - Collaborated with cross-functional teams; communicated technical findings effectively bridging data science and business impact.

DATA & AI PROJECTS

- Public Perceptions of Government Health Policies | Python, spaCy, scikit-learn 2025
 - Built end-to-end NLP pipeline on noisy Reddit data: processed **735 comments** (South Karnataka) expanding to **1,196** for analysis; demonstrated ability to work with complex, real-world datasets.
 - Applied cutting-edge machine learning techniques benchmarking **5 ML models** (SVM, DT, NB, KNN, RF) vs. **DistilBERT**; SVM achieved **41.5%** accuracy, DistilBERT **40.4%** showing strong analytical and technical skills.
 - Developed algorithmic solutions for semantic clustering using **TF-IDF + Zipf filters**; compared **K-Means (94.6%)** and **BERTopic (52.5%)** topic consistency demonstrating innovation in problem-solving.
 - Communicated findings through peer-reviewed publication (IEEE CIES 2025); translated theoretical knowledge into impactful applications contributing to thought leadership.
- Drug-Drug Interaction Prediction using Graph Neural Networks | RDKit, PyTorch Geometric 2025
 - Parsed DrugBank SMILES/XML, converted molecules to graphs via **RDKit**; engineered GNN-ready dataset demonstrating data engineering skills and hands-on execution.
 - Trained **Graph Autoencoder** applying cutting-edge machine learning to learn molecular embeddings and infer adverse drug interactions; developed algorithmic solution bridging graph theory and deep learning.
 - Evaluated model with standard link-prediction metrics (ROC-AUC / AP); demonstrated sharp analytical skills and ability to implement solutions creating real business impact in healthcare domain.
 - Deployed interactive **Streamlit** app with real-time inference on **Hugging Face Spaces**; built scalable data & AI solution showing technical expertise and deployment capabilities.
- Clinical Trial Data Quality Tool – Novo Nordisk GBS Hackathon | Python,ML Sep–Oct 2025
 - Led cross-functional team developing PRAGNA, automated eCRF comparison tool; demonstrated collaborative spirit and strong communication skills managing stakeholders under tight deadlines.
 - Built algorithmic solution implementing automated ETL pipeline and data quality validation framework; applied cutting-edge data processing techniques reducing manual effort.
 - Took ownership of project delivery driving real business impact for clinical trial submissions; demonstrated hands-on mentality and ability to contribute from day one while learning from experienced domain experts.

ACADEMIC AND PROFESSIONAL CONTRIBUTIONS

- **Novo Nordisk GBS Hackathon 2025 – Team Lead**

Sep–Oct 2025

Led development and delivery of working prototype under tight timelines; demonstrated leadership, collaborative mindset, and ability to drive data & AI transformation projects creating tangible outcomes.

- **IEEE CIES 2025 – Published Research**

2025

Published peer-reviewed paper on large-scale NLP pipeline; contributed to thought leadership demonstrating technical communication skills and ability to translate complex analytical work into impactful applications.